

Innovation In Air Distribution

**Setting the Industry Standard
for over 27 years**



2012 Catalog



Grade-D Air Filtration

Breathing Air Compressors

Air Cylinder Carts and Custom Trailers

Fire/Rescue Equipment

Confined Space Ventilation Products

HEPA Vacuums and Fume Extractors

Area Lighting Systems

The Systems Team

Quality Products Backed by our Experienced Customer Service Department

Our dedicated family of safety specialists take the time to deliver the right solution to your application with our combined knowledge and expertise in the safety field.



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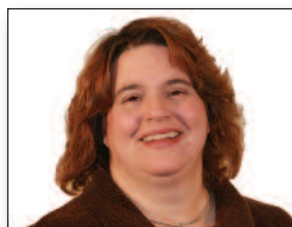
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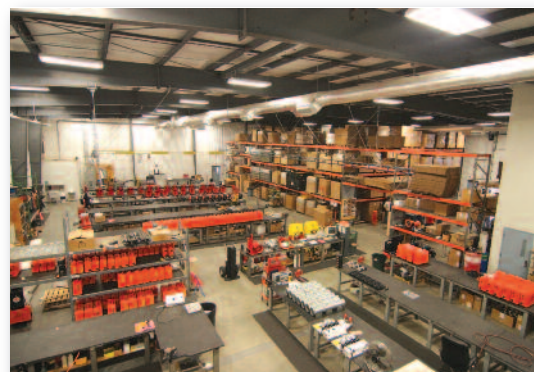
Customer Commitment For over 25 Years

Air Systems International is committed to our customers' needs and special job requirements. We have always taken great pride in being responsive to the safety and health concerns of our equipment users.

The products that we manufacture have been developed out of a specific need or desire to perform work more safely and with greater productivity. We will always continue to respond to the demands and innovative ideas of our most valued asset –

OUR CUSTOMER

David F. Angelico, President



Have a technical question? Skype Us!



Air Systems is now available to chat live to answer your questions via Skype. Add contact "AirTechLive". Please include your company name in the subject line to be added for live support.

**Monday through Friday
8 am - 5 pm EST**

On The Web And Social Networks

www.AirSystems.com

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Innovative New Products



Environmentally
Friendly Products

Contractor Series of
Ventilation Equipment
See Page 49, 54



CVFEX15KIT



CVF-8EXP



For Use In
Hazardous
Locations

Emergency Response
Ventilation Kit
See Page 55



ERVK-15DC

Products bearing the symbol **For Use in Hazardous Locations** are designed and approved for use in hazardous environments. For a complete listing of all products approved, please see the **Hazardous Locations Catalog** at www.airsystems.com

Innovative New Product Improvements

The Industry Standard for
portable blowers for over 20
years has now been improved
for our user's safety.



Air Systems **NEWLY DESIGNED**
Centrifugal Blowers Feature a
Tubular Steel Frame, Reduced
Weight, Roll Cage Protected
Components, Ergonomic Dual Carry
Handles and upgraded safety and
mechanical certifications.

See Pages 47, 51-52



SVB-E8

Innovative Product Testing

Meeting OSHA's Requirements

We are always striving to provide the highest quality products with the user's safety as our number one priority. To that effort, our electrical products are submitted to a Nationally Recognized Testing Laboratory (NRTL) for third party certification per OSHA requirements, **29 CFR 1910.303(A) and 1910.7**.

We denote our certified products with the CSA, CSA C/US or UL logos.



Understanding Breathing Air Systems

To understand breathing air you **MUST** first understand the various types of NIOSH approved respirators available to meet the respiratory hazard.

All respirators are classified as either **Negative Pressure** or **Positive Pressure** Respirators.



Negative Pressure Disposable Mask Respirator

The respirator wearer must inhale through the mask. Approved for dusts, mists, vapors and fumes.

Not approved for IDLH use. (Immediately Dangerous to Life or Health)

Negative Pressure Disposable Cartridge Respirator

This style of Respirator has replaceable cartridges or filters and comes in half mask or full face. Powered Air Purifying Respirators (PAPR) are a type of cartridge filtering respirator with a battery powered blower. They are approved for use where a filter cartridge is approved for the contaminant.

Note: Wearers must be fit tested to assure a proper face seal is achieved.

Not approved for IDLH use



Positive Pressure (Type-C) Airline Respirator - Constant Flow Hood Style

All constant flow respirators supply air continuously to maintain positive pressure inside the face piece or hood.

All airline respirators are classified by NIOSH as Type-C or Type-CE (approved for sandblasting).

Hood Style airline respirators are required by NIOSH to flow 6-15 cfm air flow per person.

Hoods are available in low pressure style for ambient air pumps, requiring 3-15 psi.

High pressure hoods, 25-110 psi, would require Grade-D breathing air provided by a Breather Box™.

No fit test is required with a hood style respirator

Not approved for IDLH use



Positive Pressure (Type-C) Airline Respirator - Constant Flow Mask

Positive Pressure respirators are available in half mask or full face and are required by NIOSH to flow 4-15 cfm per mask. They are available in low pressure style for ambient air pumps, requiring 3-15 psi. High pressure style, 25-110 psi, would require Grade-D breathing air provided by a Breather Box™. Constant flow respirators provide higher Protection Factors than air-purifying negative pressure respirators. They are not recommended for use with high pressure bottled air systems as they consume a lot of air.

Not approved for IDLH use



Positive Pressure (Type-C) Airline Respirator - Pressure Demand Style

Pressure Demand (PD) respirators supply air "on demand" and maintain a minimum positive pressure in the face piece at all times and required by NIOSH to flow 4-15 cfm to the mask just like a constant flow style respirator. Pressure demand respirators provide a high protection factor and can be used on high pressure cylinder air or low pressure filtration systems like a Breather Box™.

All PD respirators operate between 60-110 psi and require the use of Grade-D breathing air provided by a Breather Box™ or Grade-E cylinder air.

PD's with a five minute escape cylinder can be used in IDLH atmospheres





Elements of a Type-C / CE Breathing Air System

Note: Type-C / CE is a NIOSH designation for an air supplied breathing air respirator system. All airline respirators are Type-C or Type-CE. CE designates an airline respirator approved for abrasive blasting.

A Type-C system consists of the following components:

Compressed Air Source:

Electric / Gas / Diesel Compressor or Compressed Air Cylinder

Filtration

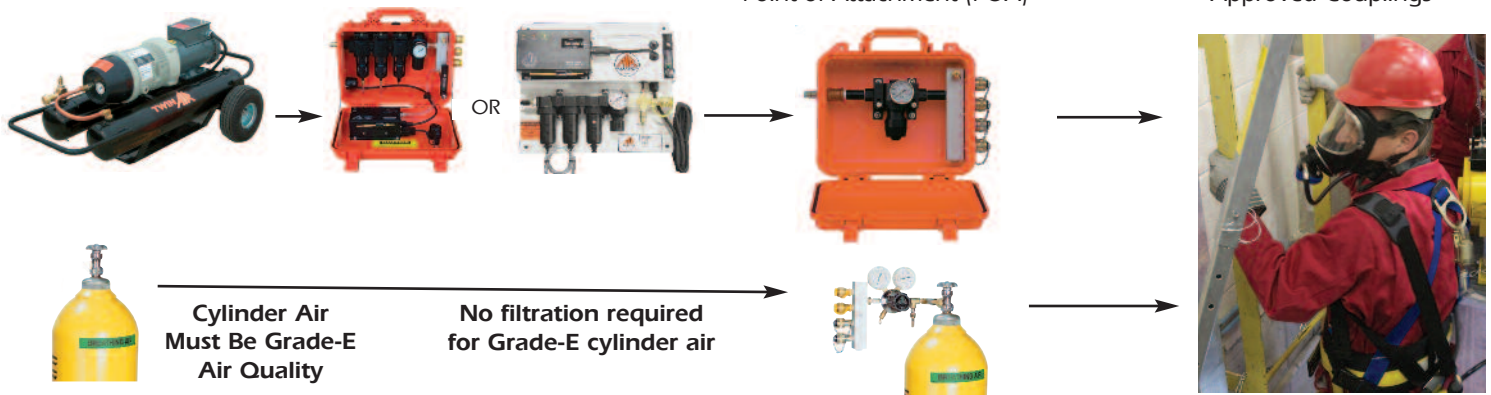
Grade-D Breathing Air with Carbon Monoxide Monitoring (Portable or Fixed System)

Air Distribution

Consists of: Air Pressure Regulator, Pressure Gauge, Safety Relief Valve, and Approved Respirator Couplings. This assembly is what is called the Point-of-Attachment (POA)

Respirator

From the Point-Of-Attachment (POA), Maximum 300 Feet of NIOSH Approved Breathing Air Hose with Approved Couplings



Sizing a Type-C / CE Airline Filtration System

Sizing of the filtration system, determining what size Breather Box™ or panel to order, is based on the air flow (CFM) and pressure requirements (PSI) of the respirators being worn and the number of workers. Air Consumption (CFM) and Pressure (PSI) ranges for representative types of respirators are listed below:

Pressure Demand	4 - 15 cfm @ 60 - 120 psi
Constant Flow Half/Full Mask	4 - 15 cfm @ 4 - 30 psi
Constant Flow Hood (Low Pressure)	6 - 15 cfm @ 3 - 15 psi
Constant Flow Hood (High Pressure)	6 - 15 cfm @ 25 - 110 psi
Vortex Cooling Tube (Option)*	15 - 25 cfm @ 60 - 110 psi

**If a vortex cooling or heating tube is used by the worker, the total air consumed is calculated by the air consumption of the vortex device.*

Once the total number of workers are established and the type of respirator selected, multiply the number of workers by the respirator flow rate required per worker, to determine total flow requirements:

Example: 4 workers using 4 hood style respirators
4 x 15 cfm = 60 cfm required

Note: System pressure (PSI) will be determined by the device requiring the highest pressure in the system.

Filtration recommended: Air Systems' BB50-CO Breather Box™, 4-workers, with CO monitor (maximum flow capacity of 79 cfm). User must have enough compressor flow (cfm) capacity to supply the above respirators, plus additional air needs placed on the system, i.e. air tools/spray nozzles.

When ordering a Breather Box™, the customer **MUST** specify the fittings used on the respirator selected. The Breather Box™ fittings must be the same type as the respirator hose fittings to maintain NIOSH approval on the respirator and hose assembly.

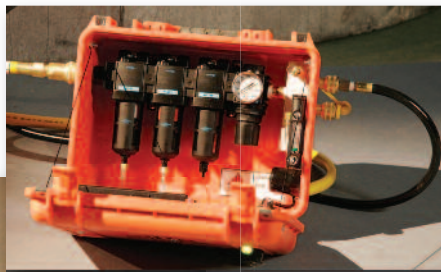
All Air Systems' filtration products are designed to flow the maximum amount of air a worker's respirator could demand. NEVER undersize a filtration system.

What is Grade-D Air Quality?


Breathing air quality standards have been developed by ANSI/Compressed Gas Association (CGA) G-7.1 - 1989, and adopted by OSHA under their respiratory standard 29 CFR, 1910.134.

Air Quality Must Meet or Exceed The Following Requirements:

- Oxygen: 19.5%-23.5% (20%-22% Canada)
- Hydrocarbon (condensed oil) 5 mg/m³ maximum (<1Mg/m³ in Canada)
- Carbon Monoxide (CO): 10ppm maximum (5 ppm in Canada)
- Carbon Dioxide (CO₂): 1000ppm maximum (500 ppm in Canada)
- Odor: No noticeable tastes or smells
- Water Content:
 - High pressure cylinder air** must have a dew point of at least -50°F (-45.6°C) at 1 atmosphere (14.7psi).
 - Low pressure breathing air** must have a dew point of at least 10°F (5.56°C) below the ambient temperature at 1 atmosphere (14.7 psi)
- **Canada:** 5° C below lowest temperature, 27 ppm maximum water vapor
- Total Volatile Hydrocarbons (Canada): 5 ppm maximum



Air Systems' Grade-D Filtration Specifications:

- **1ST Stage Filter** - Filter Change Indicator, Automatic Drain, Removes Liquids and Particulate to 5.0 micron Particle Size
- **2ND Stage Filter** - Filter Change Indicator, Automatic Drain, Provides Oil Coalescing and Ultra-fine Particulate Filtration to .01 micron Particle Size
- **3RD Stage Filter** - Filter Change Indicator, Manual Drain, Charcoal Removes Organic Vapors and Objectionable Odors
- In-Line Carbon Monoxide (CO) Monitor. Optional CO/O₂ Monitor
- All portable and fixed units are available with  approved intrinsically safe monitor for work in hazardous locations
- 2-year Warranty on Sensor and Entire CO Monitor
- Filter Change Indicator provided on all 3 filters (BB15-CO series has indicator installed on second stage only)
- Three Standard Power Options: Dual 9-Volt Battery, 8-16 VDC and/or 115 Volt AC, 60Hz (50Hz Optional)
- Safety Relief Valve set at 125 psi on outlet pressure
- Solid Aluminum Block Manifold with manual drain
- 0-160 psi Pressure Gauge
- Visual Flowmeter to Verify Air Flow to Monitor, adjustable flow rate, 50 -100cc
- External Mounted CO Warning LED Lights and Audible Alarm
- Remote DC Alarm Jack with Cover Cap are standard on portable units (Optional on Model BB15-CO Series). AC output supplied on all panel mount units
- Maximum Inlet Pressure - 150 psi
- All respirator couplings provided with safety lock feature
- All portable Air Systems' Breather Box™ filtration units are designed to be used in the closed position to prevent internal contamination

Did You KNOW?

Our breathing air compressors and filtration systems meet all of the following specifications when used and serviced in accordance with our instruction manuals.

- Federal OSHA 29 CFR, 1910.134 "Compressor Operations for Breathing Air"
- CSA Z180.1-00 "Compressed Breathing Air and Systems"
- British Standard BS-EN 12021:1999 "Respiratory Protective Devices"

Air Systems' is so confident that you will be pleased with your portable or fixed breathing air filtration system, we will provide, at NO CHARGE, your first lab certified air quality test of your new Air Systems' breathing air filtration device or compressor system. Contact Customer Service for details.

What is Grade-E Air Quality?

Grade-E air quality is specified by ANSI/Compressed Gas Association (CGA) G-7.1 1997 for all compressed air stored in air cylinders, e.g., SCBA tanks or large breathing air cylinders.

Grade-E air quality is the same as Grade-D with the following differences:

- Oxygen content - 20%-22%
- Total Volatile Hydrocarbons - 25 ppm maximum
- Water Content - High pressure cylinder air must have a dew point of at least -50°F (-45.6°C) and a water vapor content of 67 ppm maximum. NFPA 1500 regulations for Fire Department use may vary from OSHA requirements
- Canadian standards for cylinder air may vary. Contact CSA for details

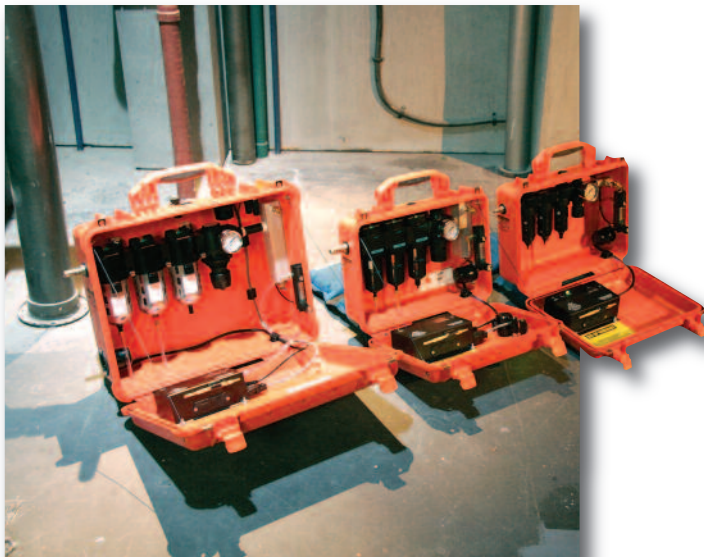


CO Monitor Specifications:

- Calibration: Less than 2 minutes
- Monitor display: LCD 3-digit readout
- Temperature range: 4 to 113 degrees F (-20 to 45 degrees C)
- Accuracy: +/- 1% of full scale
- Monitor range: 0-200 ppm CO (15-23% for optional O₂)
- Pressure range: 1-3 psi, flow 50-100cc
- Response: 90% of full scale in 10 seconds
- Sensor type: 3-electrode electrochemical with bias voltage
- Humidity range: 5% to 95% relative humidity
- Warranty: 2 years on entire unit and CO sensor (1 year on oxygen sensor)
- Alarm set point: 10ppm CO (5 ppm Canada)
- Voltage operation: 115 VAC, dual 9-volt DC battery, or 8-16 volt DC
- Test circuitry: manual push-to-test for sensor operation and alarms
- Shielding: internal RFI/EMI circuitry, aluminum case
- Warning indicators: low battery (amber), normal operation (green), high CO level (red) (LED indicators vary with model ordered)
- Output signals (standard): DC output on portables, AC output on panel versions
- Monitor case housing: black anodized aluminum
- Control panel standard features: inlet gas quick connect coupling, auxiliary 12 VDC jack, on/off/test switch, auxiliary/remote alarm jack, 115 VAC jack
- Dimensions: 7.0" L x 2.75" H x 5.1" W
- Weight: 2.1 lbs.


Intrinsically safe,  approved monitor available for hazardous locations

All filtration units are designed to flow the NIOSH maximum capacity per worker




Did You KNOW?

Sizing the filters correctly assures worker safety, comfort and extends filter life. All Air Systems' filtration systems are designed to flow the NIOSH maximum capacity per worker.

All Air Systems' filtration units are available with  approved intrinsically safe CO or CO/O₂ monitor for work in hazardous locations.

CO / O₂ Monitor

Available on all filtration models

- Dimensions: 9.5" L x 5.1" W x 2.75" H
- Weight: 2.8 lbs
- Dual display for CO and O₂ content
- Alarm set point: 19.5% O₂
- O₂ Range: 15-23%
- 1 year O₂ sensor warranty
-  approved model available



Model - CO2-91

Intrinsically Safe CO Monitor for use in Hazardous Locations





 Approved Intrinsically Safe Model - CO-91IS

Panel Mounted CO Monitor for Fixed Systems Continuous Sampling of CO and/or O₂ levels



CO-91PM

This durable carbon monoxide (CO) airline monitor panel can be ordered to retrofit any existing Grade-D breathing air system. It can be ordered with dual monitoring for CO and Oxygen (O₂) content. Units supplied with high intensity audible alarm and 115 VAC power cord. All units are powder coated steel and are ready for wall mounting. Available in  approved Intrinsically safe version, 9 VDC only.

Model No.	Description
CO-91PM	Panel mounted CO monitor, 9 VDC and/or 115 VAC, audible alarm, visual lights, flowmeter, quick connect calibration fitting, LCD display
CO-91PMIS	Panel mounted intrinsically safe CO monitor, 9 VDC only  approved for Class I, Division 1, Groups C and D environments, audible alarm, visual lights, flowmeter, quick connect calibration fitting, LCD display
CO2-91PM	Panel mounted carbon monoxide (CO) and oxygen (O ₂) monitor, simultaneously monitors for high CO and low O ₂ levels in breathing air with independent digital readout, audible alarm, visual lights, flowmeter, quick connect calibration fitting, LCD display

see page 12 for calibration kit ordering information

Grade-D Filtration

Portable Systems - The Breather Box™

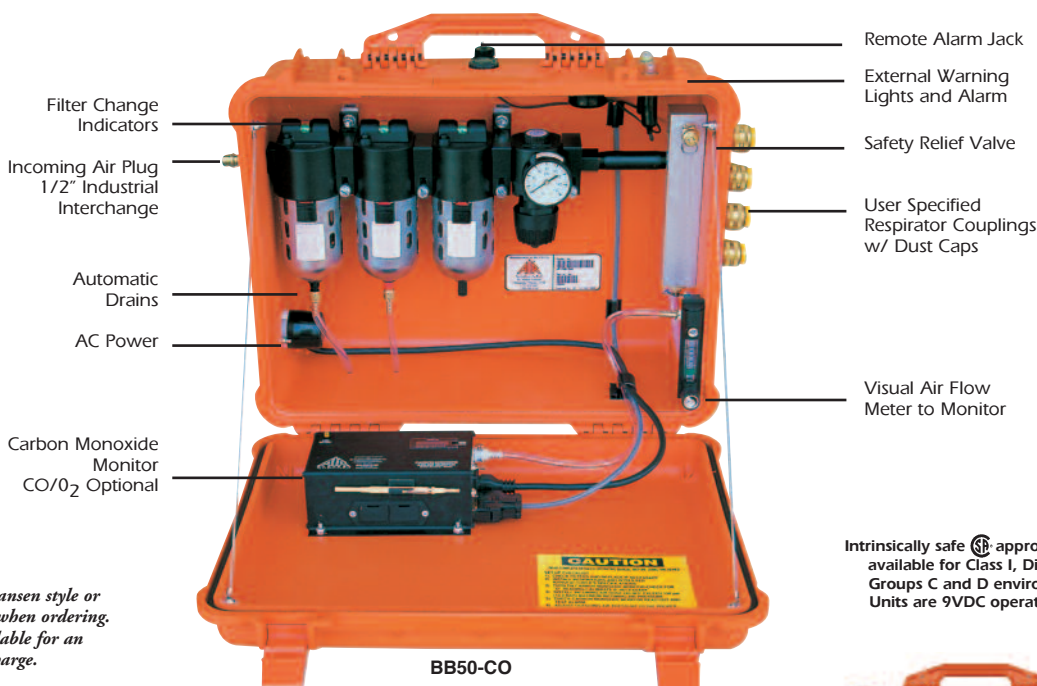
The Breather Box™

High Performance Portable Grade-D Breathing Air Filtration System


The Breather Box™ is a portable Grade-D filtration system designed to provide breathing air for a specific number of workers. The system filters incoming air from a compressor to provide respirator users with Grade-D quality air and monitors for CO and/or Oxygen.

The first stage element filters bulk water and particulate and has an auto drain. The second stage coalescing filter eliminates atomized oils, mists, ultra-fine particulates, and has an auto drain. The third stage filter removes organic vapors and odors and has a manual drain. Filter change indicators are standard on all three stages of filtration. Filtration efficiency is 99.99% @ .01 micron. All Breather Boxes™ are designed to be used in the upright and closed position to prevent internal contamination.

The standard carbon monoxide (CO) airline monitor operates on disposable 9-volt batteries, 8-16 volt DC, or 115 VAC for continuous air monitoring. An external audible alarm and light signals the workers of high CO content. A remote alarm jack is provided on all models except for Model BB15-CO. Point-of-Attachment (POA) boxes can extend respirator usage beyond 300 feet. **See page 11 for additional details.**




Please specify 1/4" Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge.

Intrinsically safe  approved models available for Class I, Division 1, Groups C and D environments. Units are 9VDC operation only

Model No.	Description
BB15-CO	15 cfm Breather Box™, CO monitor - (30 cfm flow capacity) -1 coupling
BB15-CO2	15 cfm Breather Box™, CO monitor - (30 cfm flow capacity) - 2 couplings
BB30-CO	30 cfm Breather Box™, CO monitor - (48 cfm flow capacity) - 2 couplings
BB30-CO3	30 cfm Breather Box™, CO monitor - (48 cfm flow capacity) - 3 couplings
BB50-CO	50 cfm Breather Box™, CO monitor - (79 cfm flow capacity) - 4 couplings
BB75-CO6	75 cfm Breather Box™, CO monitor - (97 cfm flow capacity) - 6 couplings
BB100-CO	100 cfm Breather Box™, CO monitor - (123 cfm flow capacity) - 4 couplings
BB100-CO6	100 cfm Breather Box™, CO monitor - (123 cfm flow capacity) - 6 couplings
BB100-CO8	100 cfm Breather Box™, CO monitor - (123 cfm flow capacity) - 8 couplings
BB150-CO	150 cfm Breather Box™, CO monitor - (203 cfm flow capacity) - supplied with 3 each 1/2" sockets
Carbon Monoxide and Oxygen Monitoring	
BB30-COO2	30 cfm Breather Box™, CO/O ₂ monitor - (48 cfm flow capacity) - 2 couplings
BB50-COO2	50 cfm Breather Box™, CO/O ₂ monitor - (79 cfm flow capacity) - 4 couplings
BB100-COO2	100 cfm Breather Box™, CO/O ₂ monitor - (123 cfm flow capacity) - 4 couplings
Independent Regulators	
BB30-CO2R	30 cfm Breather Box™ - (48 cfm flow capacity) - 2 couplings, 2 independent regulators & pressure gauges
BB50-CO4R	50 cfm Breather Box™ - (79 cfm flow capacity) - 4 couplings, 4 independent regulators & pressure gauges
BB100-CO4R	100 cfm Breather Box™ - (123 cfm flow capacity) - 4 couplings, 4 independent regulators & pressure gauges

see page 12 for calibration kit ordering information

Model No.	Description
 Intrinsically Safe	
BB30-COIS	30 cfm Breather Box™ Intrinsically Safe - (48 cfm flow capacity) 2 couplings
BB50-COIS	50 cfm Breather Box™ Intrinsically Safe - (79 cfm flow capacity) 4 couplings
BB100-COIS	100 cfm Breather Box™ Intrinsically Safe - (123 cfm flow capacity) - 4 couplings (Optional 6 or 8 couplings)

 Approved for Class I, Division 1, Groups C and D environments and are 9VDC operation only



Custom Designed Breather Box™ Options

- Clear View Windows
- Independent Regulators to allow different respirators and lengths of hoses to be used simultaneously
- Fully Automated Reserve Air System
- Low Pressure Alarms

Contact Customer Service for Details





Breathing Air Panels for Permanent Mounting Applications

Permanent mounted Grade-D filtration systems are designed to provide breathing air for a specific number of workers. The system filters compressor air to provide respirator users with Grade-D quality air. The first stage element filters bulk water and particulate, the second stage coalescing filter removes atomized oils and ultra-fine particulate, and the third stage removes organic vapors and odors. Filter change indicators are standard on all three filtration stages. Filtration efficiency is 99.99% @ .01 microns. A built-in carbon monoxide monitor operates on twin 9-volt DC, 115 VAC, or 8-16 VDC for continuous detection. A high intensity audible alarm and light signals the workers of high CO content in their breathing air. A 115 VAC electrical conduit box is provided as standard to provide AC power in and connection for AC powered remote alarms. Filtration components are mounted on a powder coated steel panel.

Did
You
KNOW?

- All portable and fixed breathing air filtration systems meet or exceed OSHA 1910.134, Canadian Z180.1 Breathing Air Standards and British Standard BS-EN 12021:1999 "RESPIRATORY PROTECTIVE DEVICES"
- All filtration units are designed to flow the NIOSH maximum capacity per worker
- Air Systems provides at NO CHARGE your first lab certified air quality test of your new breathing air filtration device. Contact Customer Service for details.



BB30-COPM
2 Worker Grade-D Filtration



BB15-COPM
Single worker Grade-D Filtration
16" W x 14.5" H x 5.25" D

Model No.	Description
Standard Panels	
BB15-COPM	15 cfm Grade-D breathing air panel with CO monitor (30 cfm flow capacity) - 1 coupling or NPT outlet*
BB30-COPM	30 cfm Grade-D breathing air panel with CO monitor (48 cfm flow capacity) - 2 couplings or NPT outlet*
BB50-COPM	50 cfm Grade-D breathing air panel with CO monitor (79 cfm flow capacity) - 4 couplings or NPT outlet*
BB75-COPM	75 cfm Grade-D breathing air panel with CO monitor (97 cfm flow capacity) - 6 couplings or NPT outlet*
BB100-COPM	100 cfm Grade-D breathing air panel with CO monitor (123 cfm flow capacity) - 4 couplings or NPT outlet*
BB150-COPM	150 cfm Grade-D breathing air panel with CO monitor (203 cfm flow capacity) - NPT outlet*
BB250-COPM	250 cfm Grade-D breathing air panel with CO monitor (741 cfm flow capacity) - NPT outlet*
*Consult Customer Service	
Carbon Monoxide and Oxygen Monitoring Panels	
BB30-CO2PM	30 cfm Grade-D breathing air panel with CO/O ₂ monitor (48 cfm flow capacity) - 2 couplings or NPT outlet
BB50-CO2PM	50 cfm Grade-D breathing air panel with CO/O ₂ monitor (79 cfm flow capacity) - 4 couplings or NPT outlet
BB100CO2PM	100 cfm Grade-D breathing air panel with CO/O ₂ monitor (123 cfm flow capacity) - 4 couplings or NPT outlet
Auto-Air™ Option Panels	
BB30COAAPM	30 cfm Grade-D Auto-Air™ breathing air panel with CO monitor - (48 cfm flow capacity) 2 couplings or NPT outlet
BB50COAAPM	50 cfm Grade-D Auto-Air™ breathing air panel with CO monitor - (79 cfm flow capacity) 4 couplings or NPT outlet
B100COAAPM	100 cfm Grade-D Auto-Air™ breathing air panel with CO monitor - (123 cfm flow capacity) 4 couplings or NPT outlet

see page 12 for calibration kit ordering information

Please specify 1/4" Hansen style or Schrader style fittings when ordering.
Other fittings available for an additional charge.

Model No.	Description
☑ Intrinsically Safe Panels	
BB15COPMIS	15 cfm Grade-D breathing air panel with intrinsically safe CO monitor - (30 cfm flow capacity) - 1 coupling
BB30COPMIS	30 cfm Grade-D breathing air panel with intrinsically safe CO monitor - (48 cfm flow capacity) - 2 couplings
BB50COPMIS	50 cfm Grade-D breathing air panel with intrinsically safe CO monitor - (79 cfm flow capacity) - 4 couplings or NPT outlet
B100COPMIS	100 cfm Grade-D breathing air panel with intrinsically safe CO monitor - (123 cfm flow capacity) - 4 couplings or NPT outlet

☑ Approved for Class I, Division 1, Groups C and D environments and are 9VDC operation only



Grade-D Filtration

Auto-Air™ Breather Box™

What Is an Auto-Air™ System?

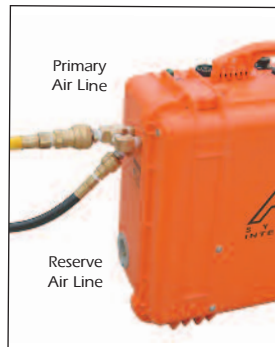
If IDLH work environments exist, the Auto-Air™ Breather Box™ option should be considered. The Auto-Air™ filtration system was developed to provide Grade-D breathing air with full automatic reserve air in the event of either electrical failure or reduced pressure from the main air source while working in hazardous environments. Reserve air activation occurs at 60 psi and/or loss of electrical supply, the system automatically switches to the reserve air cylinder(s). Local and optional remote alarms signal the workers that the primary air system has failed and has switched to the back-up air system. This Auto-Air™ feature is offered in electric or pneumatic versions.

Note: *IDLH conditions require the use of a pressure demand respirator with at least a 5 minute escape cylinder. For technical questions, contact Air Systems' Customer Service Department.*

Did
You
KNOW?

NIOSH requires the use of a 5 minute airline escape respirator when working in IDLH environments. Our Auto-Air™ feature does not replace the NIOSH requirement, however, some work environments may require a 30-minute (or longer) airline escape method to safely egress the hazardous area. This situation would require the use of an Auto-Air™ Breather Box™ or Auto-Air™ Cart.

2 YEAR
WARRANTY
ON SENSOR &
MONITOR



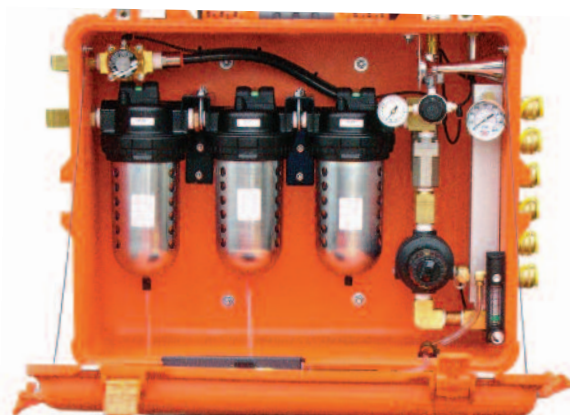
The primary air line connection is attached from the compressor to the Auto-Air™ Breather Box™. A reserve air line is attached from a single or bank of air cylinders based on the required egress duration and number of workers using the system.


The system can be tested prior to each use to ensure proper function of the Auto-Air™ system.

Always size the reserve air systems to allow an adequate safety factor for all workers to egress the environment.

The Auto-Air™ Breather Box™

Fully Automatic Reserve Air System for Work in IDLH Environments



Fully Pneumatic System
with  certified intrinsically safe CO monitor for use in hazardous location environments




Please specify 1/4" Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge.

Model No.	Description - Electric Versions
BB30-COAA	30 cfm Auto-Air™ Breather Box™ - (48 cfm flow capacity) - 2 couplings
BB50-COAA	50 cfm Auto-Air™ Breather Box™ - (79 cfm flow capacity) - 4 couplings
BB100-COAA	100 cfm Auto-Air™ Breather Box™ - (123 cfm flow capacity) - 4 couplings

see page 12 for calibration kit ordering information

Contact Customer Service for Reserve Air Cylinders and Regulators

Model No.	Description - Pneumatic Versions
	 Intrinsically Safe
BB30-COAAAP	30 cfm Intrinsically Safe Auto-Air™ Breather Box™ (48 cfm flow capacity) - 2 couplings
BB50-COAAAP	50 cfm Intrinsically Safe Auto-Air™ Breather Box™ (79 cfm flow capacity) - 4 couplings
BB100COAAP	100 cfm Intrinsically Safe Auto-Air™ Breather Box™ (123 cfm flow capacity) - 4 couplings

 **Approved for Class I, Division 1, Groups C and D environments and are 9 VDC operation only**





The Auto-Air™ Cart

The Auto-Air™ Cart provides a systems approach to breathing air filtration. The cart contains our Grade-D filtration unit, with either a pneumatic or electric reserve air system, and twin air cylinder storage. Choose a cart size based on the desired amount of reserve air needed to allow workers to safely egress the work area. Carts can operate with 2400 to 5000 psi cylinders.


The pneumatic version should be selected for hazardous work locations.

Intrinsically Safe Auto-Air™ Cart Complete Pneumatic Operation

Note: Intrinsically Safe (IS) CO monitors are  approved for Class I, Division 1, Groups C and D environments and are 9VDC operation only

APPLICATIONS

- Refineries
- Chemical and Pharmaceutical Manufacturing
- Refueling Applications
- Tank Cleaning
- Fuel Cell Entry
- Grain Silo Entry

All lights and remote alarms are pneumatically operated and spark free. The intrinsically safe CO monitor is  approved and operates on 9-volt DC batteries only.



System mounted on 2300 series large cylinder cart

B10023HTAP



The Auto-Air™ Cart Standard Electric Model

Applications

- Confined space entry
- Hazardous material handling
- Boiler cleaning operations
- Nuclear work
- Fuel cell maintenance
- Tank entry and cleaning

All HTAA Series Standard Carts Hold Two 87 or 60 CF Air Cylinders.
Large Cylinder Carts
Pictured are for Long Duration Applications.



System mounted on small cylinder cart

BB50-HTAA




The custom Auto-Air™ Cart, pictured left, utilizes our Ergo-Air® Cart frame. The unit holds two large storage air cylinders and provides ease of mobility for use in plant air operations. Any size Auto-Air™ Breather Box™ can be added to the Ergo-Air® Cart frame.

Consult Customer Service to design a cart to meet your application

**2 YEAR
WARRANTY
ON SENSOR &
MONITOR**

Please specify 1/4" Hansen style or Schrader style fittings when ordering.
Other fittings available for an additional charge.

Model No.	Description
BB30-HTAA	30 cfm Auto-Air™ Small Cart - requires 115 VAC (48 cfm flow capacity) - 2 couplings
BB50-HTAA	50 cfm Auto-Air™ Small Cart - requires 115 VAC (79 cfm flow capacity) - 4 couplings
BB100HTAA	100 cfm Auto-Air™ Small Cart - requires 115 VAC (123 cfm flow capacity) - 4 couplings
BB100-23AA	100 cfm Auto-Air™ Large Cart - requires 115 VAC (123 cfm flow capacity) - 4 couplings
 Intrinsically Safe	
BB30-HTAAP	30 cfm Intrinsically Safe Auto-Air™ Small Cart - (48 cfm flow capacity) - 2 couplings
BB50-HTAAP	50 cfm Intrinsically Safe Auto-Air™ Small Cart - (79 cfm flow capacity) - 4 couplings
BB100HTAAP	100 cfm Intrinsically Safe Auto-Air™ Small Cart - (123 cfm flow capacity) - 4 couplings
B10023HTAP	100 cfm Intrinsically Safe Auto-Air™ Large Cart - (123 cfm flow capacity) - 4 couplings

see page 12 for calibration kit ordering information

 Approved for Class I, Division 1, Groups C and D environments and are 9 VDC operation only





The Blast-Air™ Cart

Designed for the Commercial Sandblasting, Paint and Coatings Industry

The Blast-Air™ Cart has been designed to meet the demanding needs of the sandblast and coatings industry. The Blast-Air™ 50 pictured is our standard 4 worker Breather Box™ mounted on a BA-1 CAA pre-filter cart. Air can be supplied to the cart from mobile or plant air compressors and pre-filtered through high capacity water, oil, and particulate separators located on the rear of the rugged steel cart. These pre-filters automatically drain large amounts of oil and water discharged from a compressor before it enters the Breather Box™. This process will extend the filter life of the Breather Box™ and reduce maintenance downtime and costs.



BA-50

Specifications:

- Dual 300 cfm Cart Mounted Pre-Filters with Automatic Drains
- 1st Stage Filter w/ Filter Change Indicator, Removes Bulk Water and Particulate, 5.0 micron
- 2nd Stage Filter w/ Filter Change Indicator, Coalescing Oil and Ultra-fine Particulate Filtration, .01 micron
- 3rd Stage Filter w/ Filter Change Indicator, Charcoal Removes Organic Vapors and Objectionable Odors, .03 micron
- Automatic Drains in 1st and 2nd Stage Filter Assemblies; manual drain on 3rd Stage
- 2-year Warranty on CO Sensor and Monitor
- In-Line Carbon Monoxide (CO) Monitor with optional CO/O₂ Monitor - Intrinsically Safe CSA Approved Models available
- Electro-chemical Sensor for Specific Gas Detection and Rapid Calibration in less than 2 minutes
- Dual 9-Volt Battery Operation, 8-16 VDC and/or 115 Volt AC
- Safety Relief Valve set at 125 psi
- Solid Aluminum Block Manifold with manual drain
- 0-160 psi Pressure Gauge
- Visual Flowmeter to Verify Air Flow to Monitor
- External Case Mounted CO Warning Lights and Audible Alarm
- Remote DC Alarm Jack with Cover Cap, standard
- Maximum Inlet Pressure - 150 psi
- All respirator couplings provided with safety lock feature

Cart Dimensions: 40" H x 20" W
Weight: 42 lbs



Two 300 cfm Rear Pre-Filters with Auto-Drains Save The Breather Box™ Filters, Reduces Equipment Damage and Lowers Maintenance Costs.



Please specify 1/4" Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge.

Model No.	Description
BA-30	30 cfm Breather Box™ installed on the Blast-Air™ Cart (48 cfm flow capacity) - 2 couplings
BA-50	50 cfm Breather Box™ installed on the Blast-Air™ Cart (79 cfm flow capacity) - 4 couplings
BA-100	100 cfm Breather Box™ installed on the Blast-Air™ Cart (123 cfm flow capacity) - 4 couplings
BA-100-6	100 cfm Breather Box™ installed on the Blast-Air™ Cart (123 cfm flow capacity) - 6 couplings
BA-100-8	100 cfm Breather Box™ installed on the Blast-Air™ Cart (123 cfm flow capacity) - 8 couplings
BA-1 CAA	Blast-Air™ cart only with rear filters and connect hose - customer mounts existing Breather Box™
BB100-A	Pre-filter replacement element for Blast-Air™ Cart, rear filters


see page 12 for calibration kit ordering information



Portable CO Monitoring Intermittent or Continuous Sampling

This portable airline monitor connects easily to a breathing air filtration source or ambient air pumps and monitors the air for CO content. The audible alarm (90 dBA) and light will activate when the CO level exceeds 10ppm (5ppm Canadian). External alarm and lights allow for the unit to be used in the closed position and eliminates damage and contamination of the internal components.

Specifications:

- Operates on 9-volt batteries, 8-16 VDC, and/or 115 VAC
- Connector kit includes 1/4" Industrial Interchange coupling supplied on 5ft. hose
- Standard alarm jack allows for connection to remote alarm devices
- Standard version allows air pressures up to 150psi
- Available in high pressure version up to 6000psi for fill compressors
- Optional high intensity alarm
- Available in  approved Intrinsically safe version, 9 VDC only
- Consult page 4 for complete monitor specifications




Applications

- Portable filter pots
- Filter systems
- Ambient air pumps
- Equipment Rentals
- Retro-fit old style compressors and filtration systems



CO91-14LAC
Portable CO Monitor

Model No.	Description
CO91-14LAC	Portable CO monitor, 9 VDC and/or 115 VAC, 5ft. hose, 150psi maximum inlet pressure
CO91-14HAC	Portable CO monitor, 9 VDC and/or 115 VAC, 5ft. hose, rated for 5000psi maximum pressure, includes 6000psi regulator and 5ft. hose
CO-91 LACG	Portable CO monitor with built-in calibration gas cylinders, 150psi maximum, includes calibration gas and regulator
CO-91 HACG	Portable CO monitor with built-in calibration gas cylinders, rated for 6000psi maximum pressure, includes calibration gas and regulator
CO2-91LAC	Portable CO/O ₂ monitor, 9 VDC and/or 115 VAC, 5ft. hose, 150psi maximum inlet pressure

Model No.	Description - Intrinsically Safe
CO91-14IS	Portable Intrinsically Safe CO monitor, 9 VDC only,  approved for Class I, Division 1, Groups C and D environments, audible alarm, visual lights, flowmeter, quick connect calibration fitting, LCD display

**Did You
KNOW?**

Alarm set point is set at 10 ppm in compliance with U.S. and International standards.
Specify 5 ppm for Canadian operation.

See page 12 for calibration
kit ordering information



Remote Air Manifolds Point of Attachments (POA)

A remote air manifold is often called a **Point-of-Attachment (POA)**. All of our remote air manifolds meet NIOSH requirements of the 87-116 (1989) document for point-of-attachment.

The Point-Of-Attachment (POA) series provides remote manifold capability for respirator users, while complying with NIOSH regulations. The POA consists of a regulator, pressure gauge, safety relief valve, and fitting congruency necessary for proper respirator operation. The POA box can be located any distance from the Grade-D filtration Breather-Box™ or filtration panel. The remote air manifold (POA) assembly becomes the NIOSH attachment point for the respirators and is now limited to a maximum 300 feet of breathing air hose at the air outlet fitting on the remote POA box.



POA-4



Specifications:

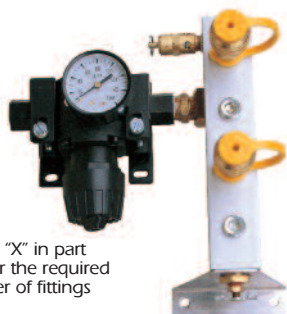
- Adjustable regulator
- 1/2" industrial interchange male inlet plug
- Pressure gauge (0-160 psi)
- Safety relief valve - set at 125 psi
- 1/4" respirator couplings supplied with safety locks
- Aluminum block manifold
- Unbreakable water resistant polycarbonate case
- Rubber gasketed lid helps to prevent internal contamination
- Unit can be taken into wet or hazardous locations

Did You
KNOW?

Using POA units, you can move the NIOSH point-of-attachment for airline respirators closer to the worker.

POA units can be used in hazardous locations.

POA-XWM



Replace "X" in part number for the required number of fittings

Wall Mounted POA Manifold

- Available from 1-8 outlets
- Adjustable regulator
- Pressure gauge (0-160 psi)
- Safety relief valve - set at 125 psi
- Aluminum block manifold
- Use with plant compressor systems, see page 23-24

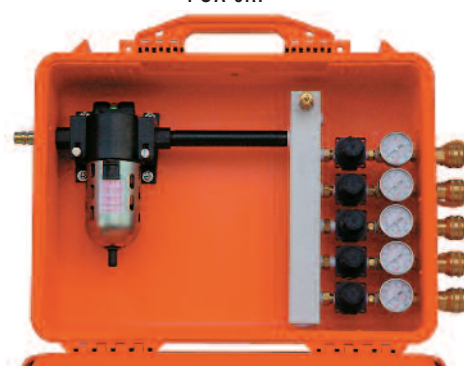
POA-4R



Independent Regulator POA Manifold

Four independent regulators allow each worker to adjust their desired pressure depending on the style of respirator and length of hose.

POA-5RF



Independent Regulator POA Manifold with Final Filtration

Five independent regulators allow each worker to adjust their desired pressure depending on the style of respirator and length of hose. Final filtration is added to remove water and particulates in plant air piping systems.

Model No.	Description
POA-4	Standard POA Box - 4 couplings
POA-4R	POA Box with 4 independent regulators
POA-4F	POA Box with final particulate filter
POA-4RF	POA Box with final particulate filter and 4 independent regulators
POA-X	POA Box, replace "X" in part number for the required number of fittings
BBM-4LF	"NRC" POA Box, final particulate filter, 4 independent regulators, low pressure warning alarm and lights (a clear gauge viewing window is optional) - Not for Hazardous Locations
POA-XWM	Wall mounted POA manifold, replace "X" in part number for the required number of fittings

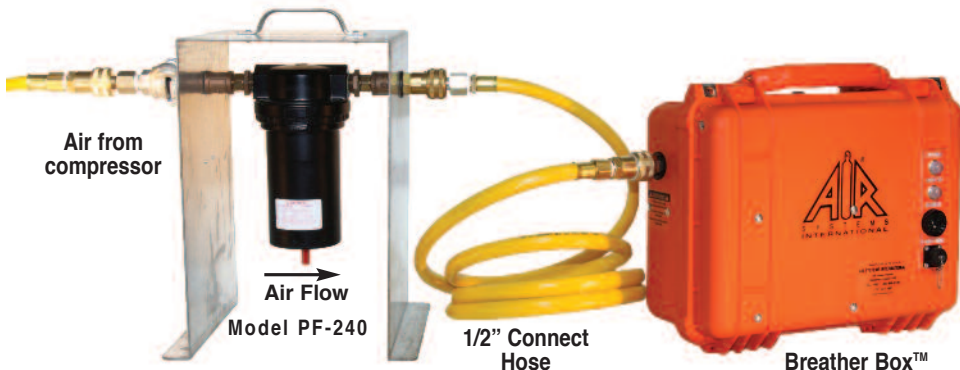
Please specify 1/4" Hansen style or Schrader style fittings when ordering.
Other fittings available for an additional charge.

Custom Designed POA Options

- Clear view windows
- Multiple filters and regulators
- Stainless steel or aluminum cases
- Low pressure warning alarms
- Models available for 1 - 8 workers

Contact Customer Service for Details

Portable Pre-Filter



Designed for use with compressors discharging a large volume of oil and water. Ideal for use in humid climates.

- High capacity 300 cfm bulk filtration and moisture removal - 200 psi rated with metal bowl
- Automatic drain assembly
- Use after compressor and before Grade-D Breather Box™ filtration unit
- Galvanized steel frame with carry handle
- Supplied with 1/2" Chicago fitting on inlet, 1/2" industrial interchange socket on outlet

Model No.	Description
PF-240	High capacity portable compressor prefilter with stand, 300 cfm capacity, 1/2" Chicago inlet, and 1/2" 5000 series Hansen socket outlet, includes auto drain
BB100-A	Replacement particulate filter for PF-240

Replacement Filters for Breather Boxes™ and Filtration Panels



BB30 Series Filters

BB15 Series

- BB15-AW Replacement particulate filter - Stage 1
- BB15-CW Replacement coalescing filter - Stage 2
- BB15-DW Replacement charcoal filter - Stage 3
- BB15-FK Filter kit for BB15-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter

Note: For all BB15 Series units purchased prior to 12/1/04 consult Customer Service for correct ordering information

BB30 Series

- BB30-A Replacement particulate filter - Stage 1
- BB30-C Replacement coalescing filter - Stage 2
- BB30-D Replacement charcoal filter - Stage 3
- BB30-FK Filter kit for BB30-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter

Did You KNOW?

In order to maintain Grade-D air quality, filters must be changed on a regular basis

BB50 Series Filters

BB50 Series

- BB50-A Replacement particulate filter - Stage 1
- BB50-C Replacement coalescing filter - Stage 2
- BB50-D Replacement charcoal filter - Stage 3
- BB50-FK Filter kit for BB50-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter

BB75 Series

- BB75-A Replacement particulate filter - Stage 1
- BB75-C Replacement coalescing filter - Stage 2
- BB75-D Replacement charcoal filter - Stage 3
- BB75-FK Filter kit for BB75-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter

BB100 Series

- BB100-A Replacement particulate filter - Stage 1
- BB100-C Replacement coalescing filter - Stage 2
- BB100-D Replacement charcoal filter - Stage 3
- BB100-FK Filter kit for BB100-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter

Note: For replacement filters not listed, contact Customer Service.

Airline Monitor Calibration Kits



BBK-20

BBK-20103

Did You KNOW?

Monitor calibration should be done monthly or whenever the reading may be questionable. Use only Air Systems' gas concentration or an inaccurate calibration may occur.

Model No.	Description
BBK-20	Calibration kit for CO monitor - 20 ppm CO, zero air, regulator, tubing, and hard case - 17 liter size disposable cylinders
BBK-10	Calibration kit - same as above with 10 ppm CO gas for Canadian calibration
BBK-20103	Large Calibration Kits Large calibration kit includes 20 ppm CO, zero air, regulator, pressure gauge, tubing, and hard case - 103 liter size disposable cylinders
	Replacement Cylinders
BBG-00	17 liter replacement cylinder, zero air
BBG-20	17 liter replacement cylinder, 20ppm CO
BBG-02	17 liter replacement cylinder, 20.9% O ₂ in nitrogen

Breathing Air Hose & Accessories

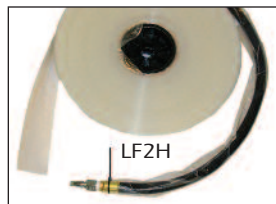
Model No.	Description
3/8" Hose	
H-6-3	6 ft. 3/8" breathing air hose
H-10-3	10 ft. 3/8" breathing air hose
H-25-3	25 ft. 3/8" breathing air hose
H-50-3	50 ft. 3/8" breathing air hose
H-100-3	100 ft. 3/8" breathing air hose
H-300-3	300 ft. 3/8" breathing air hose
LF2H	Polyethylene Hose Cover - fits 3/8" or 1/2" Hose - 600' Roll
1/2" Hose	
H-6-5	6 ft. 1/2" breathing air hose
H-10-5	10 ft. 1/2" breathing air hose
H-50-5	50 ft. 1/2" breathing air hose
H-100-5	100 ft. 1/2" breathing air hose
H-300-5	300 ft. 1/2" breathing air hose
LF2H	Polyethylene Hose Cover - fits 3/8" or 1/2" Hose - 600' Roll
3/4" Hose	
H-25-12	25 ft. 3/4" breathing air hose
H-50-12	50 ft. 3/4" breathing air hose
H-100-12	100 ft. 3/4" breathing air hose
Whip Check Safety Cable	
ASWHIPLINE	Whip check safety cable - fits 1/2" to 1 1/2" hose - 20"
ASWHIPLN10	Whip check safety cable - fits 1" to 2 1/2" hose - 28"
ASWHIPLN15	Whip check Hose to Hose - fits 1 1/2" to 3" hose - 38"
ASWHIPL20	Whip check Hose to Tool - fits 1/2" to 1 1/4" hose - 20"
ASWHIPL38	Whip check Hose to Tool - fits 1 1/2" to 3" hose - 38"



3/8" ID



1/2" ID



Polyethylene Hose Cover
for 3/8" or 1/2" hose

Please specify Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge.



ASWHIPL38



ASWHIPLINE
Attached to
3/8" Hose

Quick Connect Couplings

• Hansen • Schrader • Parker • Snap-Tite • National • Perfecting • CEJN • Chicago • Breco
* Specify size and type when ordering breathing air systems and hoses

CEJN Plug Hansen Plug Schrader Plug Chicago Coupling Snap-Tite Plug Hansen S.S. HK Plug



CEJN Coupling Hansen Coupling Schrader Coupling Chicago Coupling Snap-Tite Coupling Hansen S.S. HK Coupling

A complete guide to understanding quick connect couplings to assist you in the proper size and selection. See page 22.

Breathing Air Hose Reels

All reels can be supplied with hose installed. Hose reels can be mounted on roller carts. Consult Customer Service for details.

Note: Breathing air hose must be ordered separately

Model No.	Description
Automatic Rewind Hose Reels - 3/8" Hose (150 psi max)	
HR-50	Automatic hose reel, holds 50' of 3/8" ID breathing air hose with automatic retracting and multi-position installation
HR-50SS	Stainless steel automatic hose reel, holds up to 50' of 3/8" ID breathing air hose with automatic retracting and multi-position installation
HR-50POA	NIOSH point of attachment automatic hose reel, holds 50' of 3/8" ID breathing air hose with installed regulator, pressure gauge, and safety relief valve - use with NIOSH approved respirator hose
HR-100	Automatic hose reel, holds 100' of 3/8" ID breathing air hose with automatic retracting and multi-position installation
Automatic Rewind Hose Reels - 1/2" Hose (250 psi max)	
HR-50S	Holds up to 50' of 1/2" ID breathing air hose with auto retracting and multi-position installation
HR-57S	Holds up to 75' of 1/2" ID breathing air hose with auto retracting and multi-position installation
Manual Hose Reels (250 psi max)	
HR-100M	Manual hose reel, holds 100' of 3/8" ID hose or 50' of 1/2" ID breathing air hose
HR-400M	Manual hose reel, holds 400' of 3/8" ID hose or 200' of 1/2" ID breathing air hose
HR-550M	Manual hose reel, holds 550' of 3/8" ID hose or 300' of 1/2" ID breathing air hose
HR-500MC	Manual hose reel cart with fold down handle, holds 400' of 3/8" or 300' of 1/2" ID breathing air hose
High Pressure Hose Reels (6000 psi max)	
HPR-350	Auto hose reel, holds 50' of 1/4" ID high pressure air hose
HPR-300M	Manual hose reel, holds 300' of 1/4" ID high pressure air hose



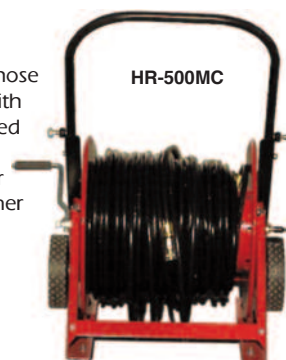
Auto Hose Reel

Colors may vary depending on reel type ordered.



Manual
Hose Reel

When ordering hose reels for use with NIOSH approved hose, order HR-50POA or contact Customer Service.



HR-500MC

Remote Alarms



Remote alarms act as a valuable warning device for the isolated worker and allows him to make a safe egress when a system fault alarm occurs.

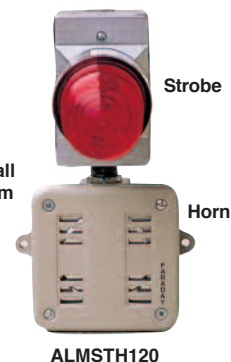
These alarm units are been designed to duplicate local alarms found on the primary equipment, such as the Breather Box™, to signal workers in a remote location of an alarm condition with their system.

Note: Portable Breather Box™ units require DC alarms. Wall mount filter panels require AC alarms.

Models Available:

- Standard audible alarm, 90 dbA
- High intensity audible, 123 dbA
- Audible and visual combination units
- Explosion-proof alarm
- Wall mount alarm

115 VAC Wall Mount Alarm



Model No.	Description
50-ALM 50-ALMH 50-ALMST 50-ALMSTH	Remote alarms for standard 9-12 VDC Breather Box™ Models ONLY Remote audible alarm, includes 50 ft. cable, 9-12 VDC Remote high intensity audible alarm, 123 dbA, includes 50 ft. cable, 9-12 VDC Remote audible alarm with mounted visual strobe and guard, includes 50 ft. cable, 9-12 VDC Remote high intensity audible alarm, 123 dbA, with mounted visual strobe and guard, includes 50ft. cable, 9-12 VDC
50-ALMAA 50-ALMSTAA	Remote alarms for standard 9-12 VDC Auto-Air Breather Box™ Models ONLY Remote dual audible alarm, includes 50 ft. cable, 9-12 VDC Remote dual audible alarm with mounted visual strobe, includes 50 ft. cable, 9-12 VDC
50-ALMP	Remote Pneumatic alarm Remote audible alarm, pneumatic horn Custom only - contact Customer Service for details
ALMSTH120 EXAL EXVST	Remote alarms for panel mounted filtration Models ONLY Remote audible/visual strobe with conduit box - 120 VAC Explosion-proof remote audible alarm - 120 VAC Explosion-proof strobe light - 120 VAC

Additional cable lengths available contact Customer Service

Did You KNOW?

The responsibility for quality of breathing air rests with the user.

The air supply compressor should be located in a safe, clean ambient air environment. This "safe" location should be tested periodically to ensure clean ambient air quality on a consistent basis. Total system air quality should be tested at the time the compressor is initially set up. If the compressor is moved, retesting air quality is recommended. Should the location or environment significantly change, the air quality should be retested.

Air Systems provides at NO CHARGE your first lab certified air quality test of your new Air Systems' breathing air filtration device or compressor. Contact Customer Service for details.

AirCheck✓Kit™

Certified laboratory air testing is now available for high pressure bottled air or low pressure compressor air requirements. Take your own samples in 10 minutes and send out for precise laboratory results. A 2LA accredited lab will test to any recognized standards, e.g., CGA, NFPA, or Federal MIL Specs.

Results can be obtained in less than 3 days; same day service is available for an additional charge.

Air Sampling Kits Available for Rental or Purchase

Laboratory Air Testing Service Fast * Easy * Accurate



ACK-97 & AQT-1LS

Model No.	Description
ACK-97	Air Check Kit to collect air sample. Specify pressure adapter required for testing SCBA, SCUBA, or low pressure. Purchase of AQT-1LS required
ACK-97R	RENTAL Air Check Test Kit - 2 week rental period. Purchase of AQT-1LS required
AQT-1LS	Laboratory analysis fee and sample media kit. One kit required for each air test performed.

Compressed Air Cylinder Test Meter For Blended Air

Test Air Quality
Prior to Use



AQT-C002

The Model AQT-O2 Air Quality Test Meter has been developed out of a need to test rented cylinder's blended air quality before putting them to use. Obtain an immediate and accurate oxygen (O₂) reading for both high pressure cylinder air and low pressure plant air lines. The tester can be ordered with an additional sensor to read carbon monoxide (CO) simultaneously with oxygen (O₂), order Model AQT-COO2. The tester requires two 9-volt batteries for operation and is supplied with 5 feet of hose.

For cylinder air testing, order the optional high pressure adapter pictured below, Model AQT-347LP



AQT-347LP
Air Cylinder Adapter

High Pressure Air Cylinder Adapter

When testing high pressure air cylinders, the AQT-347LP adapter must be ordered. It reduces cylinder pressures up to 5000psi down to 100psi. The AQT's sample hose can then be plugged directly into the air cylinder adapter. The low pressure air sample is then attached to the AQT-COO2 test meter.

Model No.	Description
AQT-O2	Air Quality Test Meter, O ₂ only, max. pressure 125 psi
AQT-COO2	Air Quality Test Meter, CO and O ₂ , max. pressure 125 psi
AQT-347LP	High pressure air cylinder adapter, 5000 psi max to 100 psi reducer
BBK-10	Calibration kit - 10 ppm CO and zero air - Canadian Requirement - 17 liter cylinders
BBK-20	Calibration kit - 20 ppm CO and zero air - 17 liter cylinders
BGG-02	Oxygen calibration gas, 17 liter, 20.9% in nitrogen

Note: All meters are supplied with 5 feet of test hose and a 1/4" Hansen or Schrader style low pressure plug.
For cylinder air testing, order high pressure cylinder adapter above, AQT-347LP

Air Quality Test Kit

Air Systems' breathing air quality test kits are designed to test the air produced by compressors (use Model LP-A4) and compressed air in cylinders (use Model HP-A4 and HP-A445). These tests are accomplished through the use of low cost detector tubes that provide a "go/no go" test of the air quality. If a high reading is found, this signals the user that they have a potentially unacceptable quality of breathing air. If this occurs, a laboratory analysis of the air components must be made to determine the exact readings of the air quality and take corrective action.

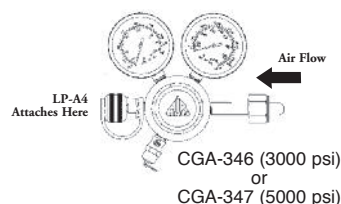
For precise laboratory analysis, see Air Check Kit information on page 14.



Complete Test Kit
LP/HP-A445K
Rated for 5000 psi Testing

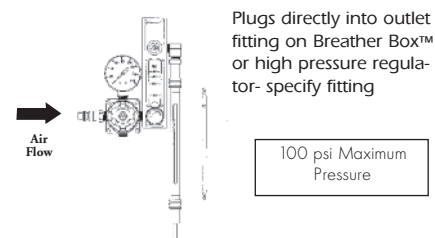
High Pressure Cylinder Air Test Module

HP-A445 & HP-A4



Low Pressure Compressor Air Quality Test Module

LP-A4



Model No.	Description
Basic Components for All Tests	
HP-1A*	Replacement carbon monoxide test tube - 10/Box
HP-2A*	Replacement carbon dioxide test tube - 10/Box
HP-6A*	Replacement water vapor test tube - 10/Box
HP-109AD*	Replacement oil mist test tube - 10/Box
* Denotes Tubes Supplied In Kits Below	
Basic Component Test Modules	
HP-A4	Cylinder air test module - 3000 psi maximum - use with test module LP-A4
HP-A445	Cylinder air test module - 5000 psi maximum - use with test module LP-A4
LP-47PF	Total particulate test module - maximum 20 psi - add to test modules above - includes one filter
LP-A4	Compressor air quality test module - 100 psi max.
Complete Test Kits	
LP/HP-A4K	Consists of: LP-A4, HP-A4, LP-47PF, 4 boxes assorted test tubes, polycarbonate padded carry case - 3000 psi maximum
LP/HPA445K	Same as above kit, includes HP-A445 test module in place of HP-A4 module - 5000 psi maximum

Custom Designed Filtration Systems

Air Systems' engineering and design team will manufacture a custom Grade-D breathing air system to meet your most stringent needs.



BB650-COPM
650 cfm Grade-D Filtration

Plant Filtration Systems are Available up to 3000 cfm



Custom Plant Breathing Air

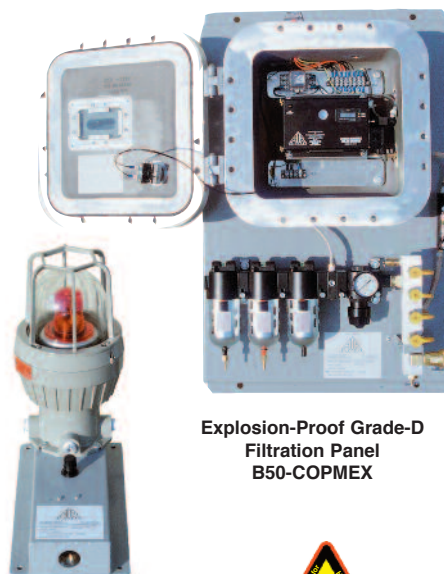


Grade-D Filtration for Clean Room Applications

Explosion-Proof Grade-D System

Model B50-COPMEX, 50cfm, explosion-proof Grade-D Filtration supplied with NEMA 7 enclosure for CO monitor and electronics with viewing window mounted on a steel panel. The 50-EXALPST, explosion-proof visual alarm and strobe, is designed for use with the explosion-proof panel and has a high intensity pneumatic audible alarm with adjustable volume.

Consult factory for additional details.



Explosion-Proof Grade-D Filtration Panel B50-COPMEX

Explosion-Proof Remote Alarm 50-EXALPST



Portable Plant Filtration Cart with Auto-Air™ Feature



Custom Breather Box™
150 cfm portable Grade-D Filtration for use with remote POA boxes



Breathing Air Compressors

Portable



COMP-3™ Breathing Air Compressor System



**Designed for use with
Pressure Demand Respirators Only**

The Twin-Air™ Compressor system is designed to provide Grade-D breathing air to 3 workers wearing pressure demand respirators. The TA-3 has twin ASME receiver tanks that act as the mounting frame for the compressor. The use of the receiver tanks provides air that has been cooled to within 10 degrees of the ambient temperature. We've added pneumatic tires for ease of mobility in rough terrain and a bottom skid plate for going up and down stairs. This plate becomes the frame for the addition of a reserve air cylinder on the model TA-3EA.

This compressor is not designed for use with constant flow respirators or Vortex cooling tubes.

TA-3 Compressor Specifications

- Rotary vane air compressor rated for continuous duty
- Pressure range to 110 psi output
- 2 HP electric motor, 1750 rpm continuous duty – thermally protected
- 115/230 VAC, 1-phase, 60Hz, 17.2 amps (Requires 20 amp service)
- Low maintenance - 500 hours between oil changes
- 10" pneumatic tires
- 50,000 hour minimum vane life
- Built-in skid plate for stair climbing
- USDA approved food grade oil in compression end
- Automatic pressure unloading - full modulation air control
- Breather Box™ Grade-D filtration package required
- Noise level below 70 dbA at 3 feet
- 8 Gallon Twin-Air™ tank assembly, 8.5 cf air storage @ 110 psi, ASME coded
- 1/2" 5000 series Hansen style coupling on air outlet
- Optional explosion-proof motor (230/3 VAC only), MODEL TA-3EXP, see page 18
- Dimensions: 46" L x 24" W x 22" H
- Weight: 150 lbs



Did You KNOW?

All compressors MUST be placed in a clean air environment per OSHA 1910.134

Model No.	Description
TA-3	Twin-Air™ Compressor, 115/230 VAC, 1 phase, 2HP, 20amp
COMP-3	Package system includes: Model TA-3 compressor, H-10-5 (1/2" x 10') connect hose, and BB30-CO3 Breather Box™ filtration package, 3 respirator fittings
BBK-20	Calibration kit for CO monitor - 20 ppm CO, zero air, regulator and case - 17 liter size disposable cylinders
BBK-10	Calibration kit - same as above with 10ppm CO gas for Canadian calibration
BB30-FK	Replacement filter kit

COMP-1™ Breathing Air Compressor System

Designed for use with Two Pressure Demand Respirators Only

The TA-1 compressor has been designed to operate 1 or 2 pressure demand airline respirators. Grade-D filtration must be provided in the form of a 1 or 2 worker Breather Box™. The TA-1 uses a 115/230 VAC 60Hz electrical supply. Model TA-3G uses a gasoline engine for mobile operations. USDA food grade oil is used in the compressor air end.



TA-1
(Non-Coded Twin Air Tanks)

BB15-CO

Model No.	Description
TA-1	Electric compressor, 1-2 worker, 115 VAC
TA-3G	Gasoline compressor, 1-2 worker with remote intake snorkel
COMP-1	Grade-D compressor package includes: TA-1 compressor, BB15-CO Breather Box™, H-25-3 connect hose
COMP-2	Same as COMP-1 with the addition of Model BB15-CO2, 2-outlet Breather Box™

This compressor is not designed for use with constant flow respirators or Vortex cooling tubes.

Compressors for use in IDLH and Hazardous Environments

COMP-3EA™ Breathing Air Compressor System

Designed for use with Pressure Demand Respirators Only

The Auto-Air™ Compressor System Package

This compressor system is designed to provide automatic back-up air for up to 3 workers in the event of compressor failure. An optional 60 or 87cf cylinder can be installed on the compressor frame to provide additional egress air.

The package consists of the Auto-Air™ Breather Box™ model BB30-COAA, the TA-3EA compressor supplied with a CGA-347 high pressure reducing regulator, primary and secondary hoses. NIOSH requires the use of a 5 minute airline escape respirator when working in IDLH environments. Our Auto-Air™ feature does not replace the NIOSH requirement, however, some work environments may require longer than a 5 minute airline hip bottle to safely egress the hazardous area.

This compressor is not designed for use with constant flow respirators or Vortex cooling tubes.



Model No.	Description
TA-3EA	Twin-Air™ Compressor System: Includes TA-3 with an adjustable high pressure (5000psi) regulator for attachment to a CGA-346 or CGA-347 cylinder, bottle strap, and cylinder protection molding.
COMP-3EA	Package system includes: Model TA-3EA compressor, H-10-5 (1/2" x 10') hose, H-10-3 (3/8" x 10') hose, high pressure regulator, and BB30-COAA Breather Box™ (order reserve air cylinder separately).
AC-60	60cf aluminum cylinder - 2400psi rated
AC-87	87cf carbon fiber cylinder - 4500psi rated
BBK-20	Calibration kit for CO monitor - 20ppm CO, zero air, regulator and case - 17 liter size disposable cylinders
BBK-10	Calibration kit - same as above with 10ppm CO gas for Canadian calibration
BB30-FK	Replacement filter kit



Model No.	Description
TA-3EXP	Twin-Air™ Compressor, 2 HP explosion-proof electric, 230/3VAC, on-off switch, no plug, user wired per NEC requirements


Note: Size the reserve air system to achieve the required egress time



Explosion-Proof Auto-Air™ Compressor

Designed for use with Pressure Demand Respirators Only

Specifications:

- 110 psi output air pressure, 3 couplings supplied
- Explosion-proof electric motor - 230 VAC, 3 phase
- Explosion-proof on/off switch
- 25 ft. power cord, no plug, user wired per NEC requirements
- 3-worker operation - pressure demand respirators only
- Full automatic back-up air feature, up to 4500 psi capability
- Pneumatic visual indicator and audible alarm for system failure
- Grade-D, 3-stage filtration with 30 cfm flow capacity
- Twin-Air™ tank design for cool breathing air output, ASME coded
- Intrinsically safe carbon monoxide monitor,  approved for 9-volt DC operation in Class 1, DIV. 1, Groups C and D Environments
- Holds one SCBA cylinder up to 4500 psi back-up air
- Steel air control panel with high pressure regulator
- Pneumatic 10" tires

This compressor is not designed for use with constant flow respirators or Vortex cooling tubes due to low output pressures.

Grade-D, 3-stage Filtration 
Approved Intrinsically Safe Carbon Monoxide Monitor



TA3-AXAF

Model No.	Description
TA3-AXAF	Explosion-proof compressor includes: Grade-D filtration, air control panel with CO monitor, 25 ft. power cord, user wired per NEC requirements. Reserve air cylinders sold separately.
AC-60	60cf aluminum cylinder - 2400 psi rated
AC-87	87cf carbon fiber cylinder - 4500 psi rated
BB15-FKW	Replacement Filter Kit
BBK-20	Calibration kit for CO monitor - 20 ppm CO, zero air, regulator and case - 17 liter size disposable cylinders
BBK-10	Calibration kit - same as above with 10 ppm CO gas for Canadian calibration

Note: Size the reserve air system to achieve the required egress time



Low Pressure Ambient Air Pumps

For use with Constant Flow Respirators Only

For proper air pump operation:

Always choose a constant flow respirator that is designed and approved to operate with an ambient air pump, UNDER 15 psi. Specify the approved respirator coupling size when ordering a particular model pump that matches the respirator hose selected. Compressors MUST be placed in a clean air environment per OSHA 1910.134.

Ambient air pumps are not designed for use with pressure demand respirators or Vortex cooling tubes due to low output pressure.



BAC-10
2-WORKER AIR PUMP

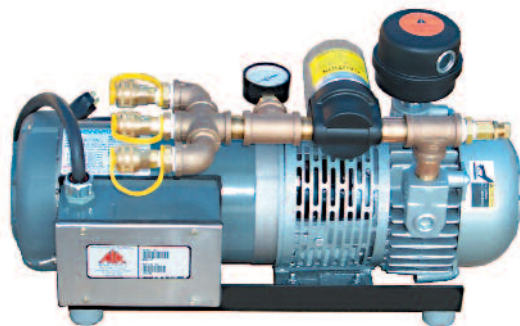
Specifications

- Operates 1 hood style respirator or 2 tight fitting constant flow masks. Respirator requirements CAN NOT exceed maximum pressure of 15psi
- Maximum 10psi at 9cfm output, 9.5 cfm output at 4 psi
- Electric motor: 3/4 HP, ODP, 100-115/208-230 VAC, 12.2/6.1 amps, 50/60 Hz, 1 phase, thermally protected, CSA approved
- 0.5-0.7 micron inlet and compressor filters
- 0-30 psi pressure gauge
- Prewired with on/off switch and plug (115 VAC plug only)
- Approximate weight: 55 lbs.

For Respirator Cooling, See Page 21

Specifications

- Operates 2 hood style respirators or 3 tight fitting constant flow masks as long as the combined flow requirements DO NOT exceed 15 cfm at 4 psi
- Maximum pressure 15 psi at 12 cfm output, 15 cfm output at 4 psi
- Electric motor: 1.5 HP, TEFC, 115/208-230 VAC, 15.2/8.2 amps, 60 Hz, 1 phase, thermally protected, CSA approved
- 0.5-0.7 micron inlet and compressor filters
- 0-30 psi pressure gauge
- Prewired with on/off switch and plug (115 VAC plug only)
- Approximate weight: 96 lbs.
- Optional explosion-proof electric motor available – Model BAC-17EXP, 230/460 VAC, 3 phase motor



BAC-17
3-WORKER AIR PUMP



BAC-20
4-WORKER AIR PUMP

Specifications

- Operates 2 hood style respirators or 4 tight fitting constant flow masks
- Maximum pressure 15 psi at 16 cfm output, 20 cfm output at 4 psi
- Electric motor: 2 HP, TEFC, 115/208-230 VAC, 20.0/10.0 amps, 60 Hz, 1 phase, thermally protected, CSA approved
- 0.5-0.7 micron inlet and compressor filters
- 0-30 psi pressure gauge
- Prewired with on/off switch and plug (115 VAC plug only)
- Approximate weight: 103 lbs.

Note: BAC-17, BAC-20, and BAC-20P models are now available with an optional HEPA intake filter

Model No.	Description
BAC-10 BAC-17 BAC-20 BAC-20P	Basic Air Pumps 2-worker ambient air pump 3-worker ambient air pump 4-worker ambient air pump 4-worker pneumatic ambient air pump
BAC-393 BAC-10F BAC-20F BAC-20HF-1	Replacement Filters Note: All ambient air pumps require two (2) replacement filters - the pump/compressor filter and the air intake filter. Replacement pump compressor filter for all models (Box of 10) Replacement air intake filter - Model BAC-10 (Box of 27) Replacement air intake filter - Models BAC-17, BAC-20, BAC-20P (Box of 14) Replacement HEPA (99%) air intake filter for Models BAC-17, BAC-20 and BAC-20P

Model No.	Description
BAC-17EXP	Air Pump - Explosion Proof 3-worker explosion-proof ambient air pump, 230/460 VAC, 3-Phase, explosion-proof on/off switch sold separately



Low Pressure Ambient Air Pumps

For use with Constant Flow Respirators Only



BAC-203TCO

Approximate weight: 180 lbs.



Did You
KNOW?

OSHA REQUIRES CO MONITORING

"For compressors not oil lubricated, the employer shall ensure that CO (carbon monoxide) levels do not exceed 10ppm." (OSHA 1910.134(i)(6))
Air Systems' CO-91 series monitor can be fitted to ANY ambient air pump.



BAC-30RT30
6-Worker Air Pump
Optional CO Monitor available

Portable Cool-Air™ Pump

All air pumps deliver output air temperatures ranging between 140-180°F. The low cost solution to cool the pump's air is to order Air Systems' air pump mounted on the ASME Twin-Air™ tank/cart frame assembly. Output air temperatures will be approximately 20°F above the ambient temperature. The system has large tires for ease of mobility. Each tank is supplied with a manual moisture drain valve. A **COOL-BOX™** can be ordered for additional cooling, see page 21 for details.

These compressors are not designed for use with pressure demand respirators. Vortex cooling tubes can not be used on air pumps due to low output pressure.

Model No.	Description
Air Pumps with CO Monitoring	
BAC-103TCO	BAC-10 compressor pump on TA-3T, Twin-Air™ tank with CO monitor
BAC-173TCO	BAC-17 compressor pump on TA-3T, Twin-Air™ tank with CO monitor
BAC-203TCO	BAC-20 compressor pump on TA-3T, Twin-Air™ tank with CO monitor
Tank Mounted Pumps	
BAC-10-3T	BAC-10 compressor pump on TA-3T, Twin-Air™ tank
BAC-17-3T	BAC-17 compressor pump on TA-3T, Twin-Air™ tank
BAC-20-3T	BAC-20 compressor pump on TA-3T, Twin-Air™ tank
BAC-20P-3T	BAC-20P compressor pump on TA-3T, Twin-Air™ tank

Portable CO Monitor for Air Pumps



See Page 10 for Monitor Details
on CO91-14LAC

High Volume Air Pumps

Air Systems offers large, high volume, oilless air pumps that deliver a maximum 15 psi. These pumps operate only constant flow respirators. Due to high output air temperatures, a small receiver tank is recommended to provide cooler air to the workers. A six outlet manifold or straight pipe outlet is supplied as standard. Custom variations available. Call Customer Service for details and specifications.

These compressors are not designed for use with pressure demand respirators or Vortex cooling tubes due to low output pressure.



Heat Stress Prevention

As temperatures rise, so do heat related injuries including heat exhaustion & heat stress.



30 feet of coated aluminum tubing cools air

THE COOL-BOX™ Portable Cooling Air Distribution Manifold

Applications

- Sand Blasting
- Confined Space
- Utility Companies
- Welding
- Maintenance
- Construction
- Production



Just add ice for immediate respirator air cooling

- Low cost cool breathing air
- 50°F output air temperature with input temperatures up to 180°F
- Easy to use and maintain - manual drain provided
- Aluminum jacketed tubing USDA approved
- 20 lbs. of ice provides up to 4 hours of cooling
- Provides NIOSH point-of-attachment components and cooling in one system
- Operates with any airline mask or hood style respirator, including level "A" chemical suits & abrasive blasting hoods. Choose the model at right to match your air supply pressure.

Model No.	Description
BACB-196	COOL-BOX™ complete with 1/4" Hansen or Schrader style fittings - rated to 125 psi inlet pressure
BACB-196LP	COOL-BOX™ designed specifically for use with Ambient Air Pumps (0-20 psi max.), low pressure pump conversion kit BACB-196K included

Note: Cooler color may vary

KOOL-VEST™ Personal Airline Cooling

- Durable double coated PVC on nylon scrim material with velcro front closures and sewn-in adjustable belt
- Vented interior of vest to direct air around the body
- Rear velcro strip controls air volume to the neck ring
- Air cooled using vortex cooling tube or **COOL-BOX™** and distributed to back, chest, neck & face
- Meets thermal and flame resistance tests 191 and 5903

Model No.	Description
KV-99NR	KOOL-VEST™ airline model - add either a vortex tube or straight airline adapter
KV-99NONR	KOOL-VEST™ airline model - No Neck Ring
99-4X	Vortex tube assembly for KOOL-VEST™
KV-99AA25	Airline Adapter for KOOL-VEST™ with 1/4" Hansen style plug
KV-99AA50	Airline Adapter for KOOL-VEST™ with 1/2" Hansen style plug



Vest with **COOL-BOX™** and KV-99AA25 airline adaptor



Vest with Optional Vortex Cooling Tube 99-4X



UNDERSTANDING QUICK CONNECT FITTINGS

Air Systems offers standard 1/4" Hansen style Industrial Interchange Brass (pull to disconnect style) or 1/4" Schrader Twist Lock (twist to disconnect style) fittings on most of our products. In **ALL** cases, the fitting on the end of the respirator hose and what it is being connected to **MUST** be compatible or they will not connect. For example, Hansen 1/4" Industrial Interchange plug fits to a 1/4" Industrial Interchange Socket.

Fitting - can refer to either a **Plug** or a **Socket**

Plug - Is commonly referred to as the male end



Hansen Style Plug
Male Threads



Hansen Style Plug
Female Threads



Schrader Style Plug
Male Threads



Schrader Style Plug
Female Threads

Socket - Is commonly referred to as the female end



Hansen Style Socket
Male Threads



Hansen Style Socket
Female Threads



Schrader Style Socket
Male Threads



Schrader Style Socket
Female Threads

MPT (Male Pipe Thread) - Threads that are on the outer body part of a plug or socket. Thread sizes are typically 1/8", 1/4", 3/8", 1/2" or 3/4" pipe thread. A fitting that has male pipe threads (MPT) can only mate to something with female pipe threads (FPT) that are of the same pipe thread size.

The male end will only
thread to female pipe
threads of the same size



FPT (Female Pipe Thread) - threads that are on the inner body part of a plug or socket. Thread sizes are typically 1/8", 1/4", 3/8", 1/2" or 3/4" pipe thread. A fitting that has female pipe threads (FPT) can only mate to something with male pipe threads (MPT) that are of the same pipe thread size.

The female end
will only thread to
male pipe threads
of the same size



"Nominal" refers to the inner diameter size that the compressed air passes through. A plug and socket must both have the same **"nominal size"** in order to mate together properly.



1/4" Inner diameter
of the Socket

1/4" Inner diameter
of the Plug



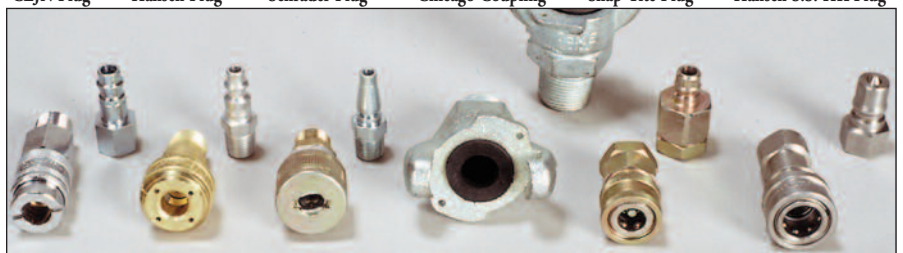
When "coupling" a plug and socket together, only the "nominal" diameter size must be the same; thread sizes may differ. When trying to attach a plug or socket to another device, the thread size must match and if the fitting has male threads, the part being connected to must have female threads and visa versa.

There are a large number of companies manufacturing quick connect couplings. Hansen, Parker and Foster are a few of the more popular names. Almost all manufacturers make an industrial interchange style. A 1/4" industrial interchange from Hansen will be compatible with a 1/4" industrial interchange with either Parker or Foster. If a customer states they are in need of a Foster fitting, ask if it is a Foster Schrader or Foster Hansen style. We can cross reference additional fitting types, please provide part numbers imprinted on the socket or plug.

QUICK-CONNECT COUPLINGS*

• Hansen • Schrader • Parker • Snap-Tite • National • Perfecting • CEJN • Chicago
*Specify size and type when ordering breathing air systems and hoses

CEJN Plug Hansen Plug Schrader Plug Chicago Coupling Snap-Tite Plug Hansen S.S. HK Plug



CEJN Coupling Hansen Coupling Schrader Coupling Chicago Coupling Snap-Tite Coupling Hansen S.S. HK Coupling

Breathing Air Compressors

Stationary

Designing a Breathing Air System:

Air Systems' technical staff will assist you in selecting the proper compressor package as the first step in designing a breathing air system to meet your needs. The compressor styles and specifications listed below are for general information. Once a specific compressor package is selected, detailed information such as technical specifications and Auto-Cad® drawings will be provided for customer review and approval.

All systems are designed and engineered to be ready for immediate use.

Plant plumbing and electrical service should be completed prior to delivery.

Did You KNOW?

It is recommended that after the initial set-up of a plant breathing air compressor system and before workers are allowed to use the breathing air system, a certified laboratory analysis of the air quality should be performed to assure that the system is functioning properly and that the compressor is located in a clean fresh air environment.

Air Systems provides at NO CHARGE your first lab certified air quality test. Contact Customer Service for details.

Plant Breathing Air Compressor Systems

Electric, Gasoline & Diesel Rotary Screw

Plant breathing air systems are designed to provide Grade-D breathing air for industrial applications. Remote air manifolds are used at various work stations. The system pictured below includes our 135 cfm compressor, a 120 gallon ASME receiver tank, Air Systems' Grade-D filtration panel with our CO-91 series carbon monoxide monitor and a refrigerated air dryer. The entire filtration system is mounted on a steel forklift frame assembly. This package configuration can be designed for any required flow (cfm) capacities and output pressures.

For a quote, please fill out the Plant Breathing Air Questionnaire in the back of the catalog or on-line at www.airsystems.com



Air Systems provides at NO CHARGE your first lab certified air quality test.

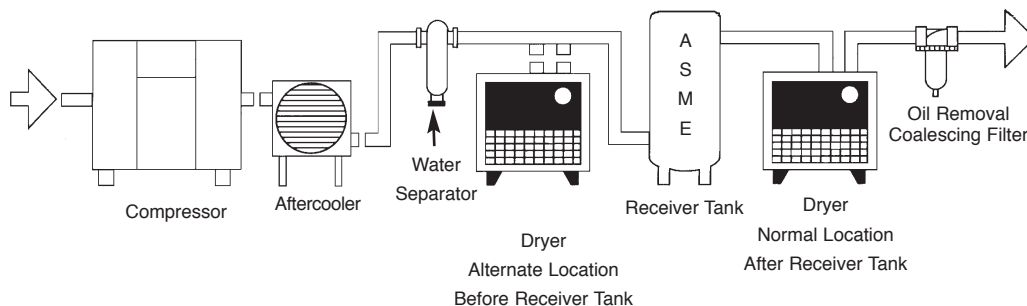
**BAC-HP135
Skid-mounted Grade-D
Breathing Air Package**

**Electric Drive Compressor with Digital Control
Panel and Integrated Dryer**

Typical Breathing Air Packages

Model Motor	acfm Output	Electric
Number	@ 110 psi	Horsepower
BAC-HP20	21	5
BAC-HP40	42	10
BAC-HP70	68	15
BAC-HP90	92	20
BAC-HP115	115	25
BAC-HP135	135	30
BAC-HP170	170	40
BAC-HP195	195	40
BAC-HP240	240	50
BAC-HP280	282	60
BAC-HP360	360	75

Typical Compressor System Layout





Plant Breathing Air Compressor Systems Choose the Industry's Finest Compressors

Select from vertical or horizontal compressor systems

Engineered Options

- Standard and HEPA Remote Intake Air Filters Available
- Refrigerated Air Dryers
- ASME Receiver Tanks
- Air or Water Cooled Aftercoolers
- Automatic Moisture Separators
- Skid Mounting
- Trailer Mounting
- Heat and Air Conditioning Systems
- Sequencers
- On-site Field Training Available



Compressor

Filtration /
CO Monitor

Air Dryer

Packages Ready
for Plant Installation

Dual Air Tower Compressors with Auto Sequencing



Portable Rotary Screw Compressors



Available in Gas or Diesel Engines.
Flow Ranges: 50 cfm – 950 cfm @ 100 psi
Grade-D Filtration Required for Breathing
Applications

High Fill Compressors

Air Systems provides a full line of high pressure fill compressors with high CO shutdown, air storage, air distribution systems and containment fill stations. We can provide output air pressures to 6000 psi and 26 cfm capacity.



We specialize in designing custom systems to meet Military, Fire/Rescue and Industrial fill applications.

Call Customer Service to discuss your particular application or fill out the High Pressure Compressor Questionnaire located in the back of the catalog or at www.airsystems.com to design a custom system to meet your needs.



Horizontal Fill Compressor

A Complete Fill System Includes:

- High Pressure Fill Compressor with CO Monitor
- Air Storage Cylinders
- Full Containment Fill Station

Electric, Gasoline or Diesel Models Available



Vertical Fill Compressor

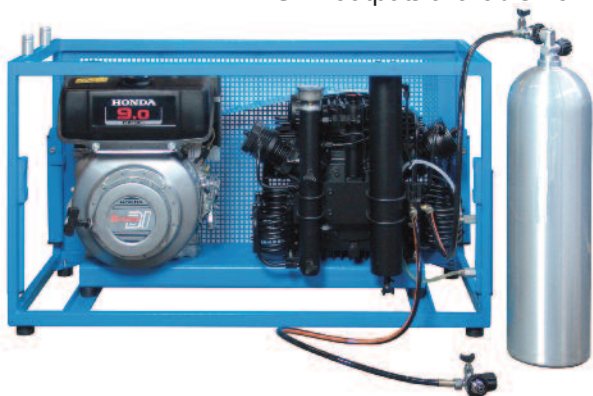
**Did You
KNOW?**

Our compressors meet or exceed the Grade-E air quality specifications found in NFPA 1989 and OSHA 1910.134 when used in accordance with manufacturer's recommendations.

Air Systems provides at NO CHARGE your first lab certified air quality test with the purchase of a new compressor with CO monitor. Contact Customer Service for details.

Portable Fill Compressors

CFM outputs available from 3.5 to 10.8 cfm, Electric, Gas or Diesel



**SCUBA fill
whips available**



Laboratory Air Testing Service

Certified laboratory air testing is now available for high pressure bottled air or low pressure compressor air requirements. Take your own samples in 10 minutes and send out for precise laboratory results. A 2LA accredited lab will test to any recognized standards, e.g., CGA, NFPA, or Federal MIL Specs. Results can be obtained in less than 3 days or expedited service is available at an extra charge.

Air Sampling Kits Available for Rental or Purchase.
Contact Customer Service For Details



3-Cylinder Fragmentation Fill Station with Cascade Control Panel and Pneumatic Opening Door



Containment Fill Stations Meets NFPA-1901 Fill Requirements

Fill stations are designed to meet NFPA cylinder containment requirements. They are the ideal choice for flexibility and trouble-free performance with supply pressures to 6000 psi and cylinder capacities from 2 to 6 positions.

All fill stations have been 3rd party tested to NFPA 1901 requirements and are individually tested and certified for performance prior to shipment.

Custom multi-bank cascade control panels are available upon request.

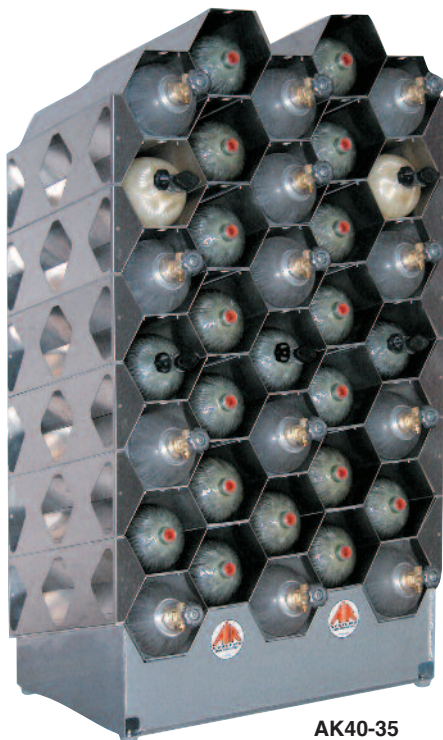
Standard Features

- All Steel Construction
- Grade-8 Steel Structural Hardware
- Vertical Blast Tubes with Liners
- Designed to Fit All Size SCBA Cylinders
- Third Party Tested to Meet NFPA 1901

Optional Features

- Single or Multiple Fill Pressures
- Isolation Valves for Each Fill Position
- Color Coded Fill Lines and Labels for Each Fill Pressure and Position
- Cascade Bank Control Panels

Contact Customer Service to Discuss Your Fill Station Needs



AK40-35
Series 40 Rack

AIR-KADDY™

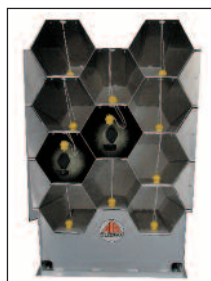
Modular Aluminum SCBA Cylinder Storage Racks

The AIR-KADDY's™ unique modular aluminum design allows for expansion as needed to accommodate your SCBA storage requirements...today and in the future! Available in Free Standing, Series 40, and Vehicle Style, Series 24. All racks are lined with nylon pads to prevent cylinder scratches.



Contact Customer Service for custom sizes

Series 24 Rack



AK24-11TS
Shown

Series 24 is designed to fit in fire/rescue trailers and trucks requiring a narrower profile.

Thread Savers®

Add TS to the model number when ordering to have Thread Savers® installed.

Model No.	Description
AK24-8	Series 24: 25.25" W X 22.25" D
AK24-11	AIR-KADDY™ 8 cylinder rack - 32"H
AK24-18	AIR-KADDY™ 11 cylinder rack - 48"H
AK24-24	AIR-KADDY™ 18 cylinder rack - 60"H
	AIR-KADDY™ 24 cylinder rack - 76"H
AK40-15	Series 40: 37.5" W X 22.5" D
AK40-25	AIR-KADDY™ 15 cylinder rack - 36"H
AK40-35	AIR-KADDY™ 25 cylinder rack - 60"H
AK40-40	AIR-KADDY™ 35 cylinder rack - 68"H
VAL-TS	AIR-KADDY™ 40 cylinder rack - 76"H
	Thread Saver® - cylinder thread protector



Thread Saver®

Cascade Cylinder Fill Assemblies



CBF3-346NB
Cylinders Not Included

Air Systems' cascade fill assemblies are used for refilling either 2216 or 4500 psi SCBA cylinders. Fill assemblies include a 5 ft. high pressure fill whip with gauge, universal hand-tight nut, on/off and bleed valve. Cylinder connecting whips are supplied with a CGA stem, nut, and tee assembly. Additional cylinder connecting whips can be added to any of the below assemblies for multiple or extended SCBA fill capacity.

Model No.	Description
CBF4-346NB	4 cylinder fill assembly, 2400 psi, CGA-346 fill whip and connecting whips, no cylinders
CBF4-347NB	4 cylinder fill assembly, 5000 psi, CGA-347 fill whip and connecting whips, no cylinders
CBF4-702NB	4 cylinder fill assembly, 6000 psi, CGA-347 fill whip and connecting whips, no cylinders

Additional Fill Assemblies Available.
Contact Our Customer Service Department.

Cylinder Fill Whips

Low Pressure HP-FW5-346

CGA-346 Fill Whip
3000psi Maximum

High Pressure HP-FW5-347

CGA-347 Fill Whip
5000psi Maximum

Ultra High Pressure HP-FW5-702

CGA-702 Fill Whip
6000psi Maximum



HP-FW5-346
5 ft. Hose
On/Off Valve
Pressure Gauge
Bleed Valve
Universal
Hand-Tight Nut

Cylinder Not Included



Cylinders Not Included

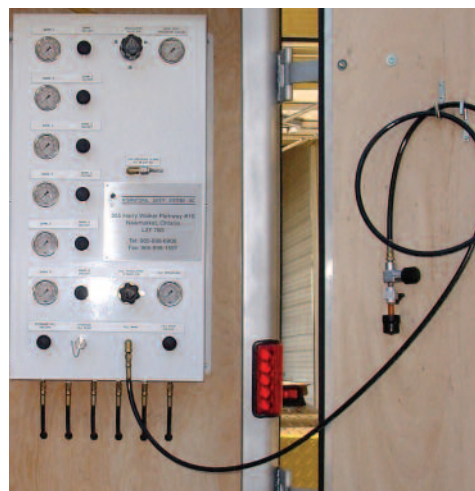
Air Cylinder Connecting Whips

Model No.	Description
Without Check Valves	
CW-30	30" Connecting whip with tee, CGA-346 stem and nut, no cylinders
CW-30HP	30" Connecting whip with tee, CGA-347 stem and nut, no cylinders
CW-30-702	30" Connecting whip with tee, CGA-702 stem and nut, no cylinders
With Check Valves	
CWCV-30	30" Connecting whip with check valve, tee, CGA-346 stem and nut, no cylinders
CWCV-30HP	30" Connecting whip with check valve, tee, CGA-347 stem and nut, no cylinders
CWCV-702	30" Connecting whip with check valve, tee, CGA-702 stem and nut, no cylinders

We Specialize in Custom Fill Panels



Contact Customer Service for assistance in designing a fill panel for your specific needs.



Cascade Breathing Air Assemblies

Air Systems' cascade breathing air assemblies offer a complete system for use with airline respirators. Additional cylinder connecting whips can be added to extend breathing air capacity with additional cylinders.

Model No.	Description
CBA3-346NB	3 cylinder breathing air assembly, 2400 psi, includes regulator, 4-outlet manifold assembly, low pressure alarm whistle, relief valve, connecting whips with check valves, no cylinders
CBA3-347NB	3 cylinder breathing air assembly, 4500 psi, includes regulator, 4-outlet manifold assembly, low pressure alarm whistle, relief valve, connecting whips with check valves, no cylinders
CBA4-702NB	4 cylinder breathing air assembly, 6000 psi, includes regulator, 4-outlet manifold assembly, low pressure alarm whistle, relief valve, connecting whips with check valves, no cylinders

**Additional Breathing Air Assemblies Available.
Contact Our Customer Service Department.**



CBA3-346NB
Cylinders Not Included

Breathing Air Regulator / Manifolds



RG-3000



HP-CW1-346

Manifold assemblies available from 1 to 8 outlets
Cylinders Not Included

Model No.	Description
HP-CW1-346	4-outlet manifold assembly with safety relief valve, 3000 psi regulator, CGA-346 connection, low pressure alarm whistle, 4 fittings, no cylinders
HP-CW1-347	Same as above with CGA-347 connection, 5000 psi regulator, low pressure alarm whistle, 4 fittings, no cylinders
HP-CW1-702	Same as above with CGA-702 connection, 6000 psi regulator, low pressure alarm whistle, 4 fittings, no cylinders
RG-3000	CGA-346, 3000 psi, adjustable regulator, dual gauge, relief valve and 1/4" QD fitting, no cylinders
RG-5000	CGA-347, 5000 psi, adjustable regulator, dual gauge, relief valve and 1/4" QD fitting, no cylinders

**Low Pressure Bell Alarm Available - Contact Customer Service.
Please specify fittings when ordering.**

Fill Regulator

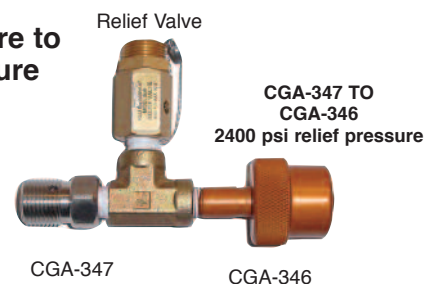


RG-6000FIL

Model No.	Description
RG-6000FIL	Fill regulator, 6000 psi inlet, 0-5000 psi outlet with gauges, CGA-347 or CGA-702 inlet

Safety Fill Adapter

**High Pressure to
Low Pressure
Adapter**



Model No.	Description
HT-346RV	Safety fill adaptor CGA-347 to CGA-346

High Pressure Breathing Air Accessories



AC-444

Air Storage Cylinders



AC-60



AC-87

Model No.	Description
AC-60	60 cf CGA-346, 2216 psi, aluminum
AC-87	87 cf CGA-347, 4500 psi, fully wrapped carbon fiber
AC-300	300 cf CGA-346, 2400 psi, steel
AC-444	444 cf CGA-347, 4500 psi, steel
AC-472	472 cf CGA-347, 5000 psi, steel
AC-509	509 cf CGA-702, 6000 psi, steel
ASME-420	420 cf ASME, 5000 psi, steel, requires special fittings and gauges
ASME-480	480 cf ASME, 6000 psi, steel, requires special fittings and gauges

Test Air Quality Prior to Use

Compressed Air Cylinder Test Meter for Blended Air

The AQT-O2 Air Quality Test Meter was developed to test rented cylinder's blended air quality before putting into service. Obtain an immediate and accurate oxygen (O₂) reading for both high pressure cylinder air and low pressure plant air lines.

The tester can be ordered with an additional sensor to read carbon monoxide (CO) simultaneously with oxygen (O₂) - model AQT-COO2.



AQT-C002

The tester requires two 9-volt batteries for operation and supplied with 5 feet of hose. **For cylinder air testing, order the high pressure adapter Part No. AQT-347LP.**

Model No.	Description
AQT-O2	Air quality test meter, Oxygen test only 125 psi maximum inlet pressure
AQT-COO2	Air quality test meter, dual Oxygen and Carbon Monoxide testing, 125 psi maximum inlet pressure
AQT-347LP	High pressure (5000 psi) to low pressure (100 psi) adapter, CGA-347 stem and nut

High Pressure CGA Fittings

Hand Tight Fittings



SS347HT

CGA-347 Universal hand tight fits CGA-346 or 347 male thread, maximum pressure 5500 psi



SS347SNHT

CGA-347 High pressure hand tight fits CGA-347 male thread only, maximum pressure 5500 psi

Quick-Fill Coupling



QDAPD17F Quick-Fill Coupling - Plug
QDAFD17F Quick-Fill Coupling - Coupler

Contact Customer Service for ordering information

Wrench Tight Fittings



CGA-346 Series

Maximum pressure, 3000 psi

HPBR025 CGA-346 Brass Nut
HPBR026 CGA-346 Brass Stem
HPBR027 CGA-346 Brass Stem with Check Valve



CGA-347 Series

Maximum pressure, 5500 psi

HPBR049 CGA-347 Brass Nut
HPBR050 CGA-347 Brass Stem
VC4SMMSS CGA-347 Brass Stem with Check Valve



CGA-702

Maximum pressure, 7500 psi

SS702N CGA-702 Brass Nut
SS702S CGA-702 Brass Stem
VC4SMMSS CGA-702 Brass Stem with Check Valve

High Pressure Breathing Air Storage Racks



**Steel Lift-Pak™
LP-3LNB**
Cylinders Not Included

LIFT-PAK™ Air Cylinder Transport PAKS

LIFT-PAK™ is designed for ease of lifting and securing multiple air cylinders. LIFT-PAK™ can be supplied complete with a respirator regulator, manifold, safety relief valve, low pressure alarm whistle, hardware, and cylinders.

The LIFT-PAK™ frame has a center lift hook and is manufactured with heavy gauge steel or aluminum.

All LIFT-PAK™ units are made to order on a custom basis.

Certified Load Testing Available

Model No.	Description
LP-3LNB	3-cylinder LIFT-PAK™ includes stand and 3 cylinder hook-up, 2400 psi regulator and 4 outlet manifold, no cylinders
LP-3HNB	3-cylinder LIFT-PAK™ includes stand and 3 cylinder hook-up, 4500 psi regulator and 4 outlet manifold, no cylinders
LP-3	3-cylinder LIFT-PAK™ frame only, no cylinders or hardware
BR-6AL	6-cylinder LIFT-PAK™ aluminum rack with fork guides and lift hook - no cylinders or hardware
BR-4AL	4-cylinder LIFT-PAK™ aluminum rack with fork guides and lift hook - no cylinders or hardware



**Aluminum Lift-Pak™
"The Shark Cage"
BR-6AL**
Cylinders Not Included

Custom Large Air Cylinder Storage Racks

Custom heavy-duty steel floor storage racks can be ordered in any combination to meet cylinder storage requirements. Racks can be floor or wall mounted. Two heavy gauge chains with snap hooks are supplied for each row of cylinders.

Order any size rack in either vertical or horizontal style. Systems can be ordered with cylinders and all hardware supplied at pressures up to 6000 psi. Air control panels can be customized for the most demanding applications. Racks can be designed for slide-in vehicle mounting.

Model No.	Description
BR-1	1-cylinder rack wide, no cylinders
BR-2	2-cylinder rack wide, no cylinders
BR-3	3-cylinder rack wide, no cylinders
BR-22	2 deep x 2 wide, 4-cylinder rack, no cylinders
BR-23	2 deep x 3 wide, 6-cylinder rack, no cylinders

**Optional
Forklift
Guides**



Cylinders Not Included



BR-1



Cylinders Not Included

Economical SCBA / SCUBA Cylinder Storage Rack

- Steel wire basket
- Floor mountable
- Dimensions:
34" L x 8.75" W x 11" H

Model No.	Description
TR-4	4 cylinder storage rack

Air Cylinder Carts

Small Cylinder Cart

MULTI-PAK™ Air Cylinder Carts

The patented MULTI-PAK™ series of SCBA Cylinder carts has been designed with the user in mind. Choose from many basic designs to fit any job application. All of the small MULTI-PAK™ carts feature fold-down handles, recessed air control panels, rounded cart corners, quick release hose racks, and many other unique features. Choose the pressure range and number of fittings required. All carts have input and output pressure gauges.

Ideal for working in hazardous locations and emergency response.



Specifications

- Fold down handle
- Intrinsically safe low pressure alarm whistle (Bell alarm available)
- High flow adjustable regulator
- Input and output pressure gauges
- Solid aluminum block manifold
- Universal handtight CGA fittings with bleeder valves
- Wrenchtight fittings on Model MP-2L
- Nylon cylinder straps with Velcro®
- Quick release hose rack
- In-line check valves
- 8" Semi-pneumatic tires
- Steel frame with black powder coat paint
- 21" L x 16" W x 41" H (Handle up) 34.5" (Handle down)
- Weight: 49 lbs.



U.S. Patent
#D443,744



MP-4H
Cylinders Not Included

MULTI-PAK™ Rescue Cart



- High pressure auxiliary CGA-347 inlet for continuous operation from an external air supply, e.g. truck air
- Secondary low pressure regulator to operate pneumatic tools and lift bags at low pressure
- Cylinder selector valve for independent cylinder operation

Cylinders Not Included

**Cart Models Available
for 2216 to 4500 PSI**

Nylon Cart Cover



Transport and store Multi-Pak™ carts with a 400 denier black nylon cover with velcro closures at the top and base.

MP-C

Model No.	Description
MP-2L	MULTI-PAK™ 2-cylinder air cart, 2400 psi, supplied with 2-outlet manifold, CGA-346 wrenchtight nuts
MP-2H	MULTI-PAK™ 2-cylinder air cart, 4500 psi, supplied with 2-outlet manifold, CGA-347 handtight nuts
MP-4H	MULTI-PAK™ 2-cylinder air cart, 4500 psi, supplied with 4-outlet manifold, high flow regulator, CGA-347 handtight nuts
MP-4R	MULTI-PAK™ Rescue, 2-cylinder air cart, 4500 psi, supplied with 4-outlet manifold, high flow regulator, CGA-347 handtight nuts
MP-TR1	Tech-Rescue™ Cart - See pg 37 for details
Accessories	
AC-87	87cf carbon fiber cylinder, 4500 psi
AC-60	60cf aluminum cylinder, 2216 psi
MP-C	Black nylon cart cover for small MP-series carts

MULTI-PAK™ Large Cylinder Air Carts

Large Cylinder Air Carts Available in Cylinder Pressures from 2400 TO 5000 PSI

The MULTI-PAK™ series of large air cylinder carts are designed for long duration industrial applications. The entire line of carts are built for easier mobility and function. The large cylinder carts incorporate features such as protected recessed controls, an equipment storage box, narrow profile, 16" pneumatic tires and quick-release hose hangers. Pick and choose the features that best suit your job application and work environment.

Model MP-2300ENB Pneumatic Alarm Whistle

Specifications

- 5000 psi hardware
- Pneumatic low pressure alarm whistle, available with bell alarm
- Solid aluminum block manifold
- In-line check valves
- High flow adjustable regulator
- Input and output pressure gauges
- Storage box with latch
- Universal handtight nuts – fits 2400 to 5000 psi cylinders
- Quick release hose rack - holds 200ft of 3/8" hose
- 16" pneumatic tires
- 62" H x 25" W x 30" D w/cylinders
- Weight: 112 lbs. without cylinders



Ideal for working in hazardous locations or emergency response



MP-2300ENB
Cylinders Not Included

Front view with hose storage rack - holds 200 feet of 3/8" hose



Model No.	Description
MP-2300ENB	Pneumatic Alarm 2-cylinder cart complete with pneumatic alarm whistle, no cylinders supplied, 5000 psi rated For Hazardous Locations
MP-2300HNB	Electronic Alarm 2-cylinder cart complete with electronic alarm, no cylinders supplied 5000 psi rated - For Non-Hazardous Locations
50-ALM 50-ALMH 50-ALMST 50-ALMSTH	Remote alarms for standard 9-12 VDC Breather Box™ Models ONLY Remote audible alarm, includes 50 ft. cable, 9-12 VDC Remote high intensity audible alarm, 123 dbA, includes 50 ft. cable, 9-12 VDC Remote audible alarm with mounted visual strobe and guard, includes 50 ft. cable, 9-12 VDC Remote high intensity audible alarm, 123 dbA, with mounted visual strobe and guard, includes 50 ft. cable, 9-12 VDC
AC-300 AC-444 AC-472	Optional Cylinders 300 cf steel cylinder - 2400 psi 444 cf steel cylinder - 4500 psi 472 cf steel cylinder - 5000 psi
MP-2300C	Cart Cover Black nylon cart cover for 2300 series carts



Rear Storage Box

Custom applications are always welcome!

Model MP-2300HNB Electric Alarm Version

Specifications

- 5000 psi hardware
- Electronic, high intensity, low pressure alarm
- Solid aluminum block manifold
- In-line check valves
- High flow adjustable regulator
- Input and output pressure gauges
- Alarm jack for remote low pressure alarms
- Quick release hose rack - holds 200 ft of 3/8" hose
- 16" pneumatic tires
- 62" H x 25" W x 30" D w/cylinders
- Weight: 112 lbs. without cylinders



**CONTROL BOX WITH
ELECTRONIC ALARM**

MP-2300HNB
NOT approved for hazardous locations



MP-2300HNB
Cylinders Not Included

Ergo-Air® Cart System

Helps Reduce Back Injuries

Ergonomically Designed Mobile Breathing Air Cart System

Air Systems' innovative air cylinder cart has been ergonomically designed to help prevent back injuries and facilitate mobility. The Ergo-Air® Cart features one-hand operation during raising or lowering of the air control panel and cylinders.

No back strain is placed on the operator during pushing or pulling the cart. The basic cart design comes standard with Air Systems' unique air control panel and cart assembly. Several hose reel options are available to meet particular job applications.



Raising cart: 15 lbs. of force
Lowering cart: 35 lbs. of force

Lift hooks

Optional upper storage cabinet

Recessed air control panel



Cylinders, hose and reel ordered separately

EAC-97NB
with Available Upper Storage Case

Ergo-Air® is a Registered Trademark of
Air Systems International, Inc.

Available with twin auto hose reels and 16" pneumatic tires

Ergo-Air® Cart Details

- 2400 or 5000 psi rated air pressure regulator
- Steel air control panel with 4-outlet respirator manifold
- 16" semi-pneumatic rear tires and front locking swivel casters
- High pressure hardware with in-line check valves
- Twin cylinder straps with padded brackets
- Cart lifting hooks
- Cart Dimensions: 32"W x 41"D x 62"H
- Available steel upper storage cabinet:
Dimensions: 24" W x 12" H x 12" D

Ergo-Air® Cart Alarm Details

Dual 9-volt electronic low pressure audible and visual alarms supplied on the electronic versions only. Remote audible and visual alarm jack on all electronic versions.

Not approved for hazardous locations

Low pressure alarm whistle is standard on the pneumatic version.
Bell alarm available.

Approved for hazardous locations

Model No.	Description (Reels and Cylinders Sold Separately)
EAC-97NB EAC-97HNB	Semi-Pneumatic Tires - LP Alarm Whistle Ergo-Air® cart, 2400 psi regulator - Hazardous Location Approved Ergo-Air® cart, 5000 psi regulator - Hazardous Location Approved
EAC-97ENB EAC-97HENB	Semi-Pneumatic Tires - Electronic Alarm Ergo-Air® cart, 2400 psi regulator - For Non-Hazardous Locations Ergo-Air® cart, 5000 psi regulator - For Non-Hazardous Locations
EAC-97PTNB EAC-97PHNB	Pneumatic Tires - LP Alarm Whistle Ergo-Air® cart, 2400 psi regulator - Hazardous Location Approved Ergo-Air® cart, 5000 psi regulator - Hazardous Location Approved
EAC-97PENB EAC-97PHENB	Pneumatic Tires - Electronic Alarm Ergo-Air® cart, 2400 psi regulator - For Non-Hazardous Locations Ergo-Air® cart, 5000 psi regulator - For Non-Hazardous Locations
EAC-97150A EAC-97250A EAC-97300M EAC-97210M EAC-97450M H-300-5 H-300-3 EAC-97SBU EAC-C	Cart Options Single HR-50. auto hose reel - holds 50 ft. 3/8" hose Dual 50 ft. auto hose reels installed 300 ft. manual hose reel -holds 200 ft., 1/2" or 300 ft., 3/8" hose Dual 100ft. manual hose reels installed -holds 100 ft. 3/8" hose Manual hose reel - holds 450ft. of 3/8" hose or 300 ft. of 1/2" ID hose Breathing air hose 1/2" ID - 300 ft. Breathing air hose 3/8" ID - 300 ft. Storage cabinet - upper Nylon cart cover- fits all Ergo-Air® carts



PAK-UNI1
Cylinder Not Included

UNI-PAK™ Single Cylinder PAK

Specifications:

- Steel frame with powder coat orange paint
- 2-outlet manifold
- Holds either a 2216 or 4500 psi SCBA cylinder
- Adjustable regulator and low pressure alarm whistle
- Specify desired respirator fittings when ordering
- Dimensions: 34" L x 7.4" W x 4.5" D
- Weight: 7 lbs. w/out cylinder

Ideal for working in hazardous locations or emergency response



**Optional UNI-PAK™ Carrier
SVH-DC25**
Cylinder Not Included

PORTA-PAK™ Twin Cylinder PAK

Specifications:

- High pressure 4500 psi regulator with CGA-347 connections, universal handtight nuts
- Low pressure alarm whistle
- Check valves in-line to allow independent cylinder operation and removal
- Orange powder coated aluminum frame with padded carry handles
- 4-outlet breathing air manifold with safety relief valve
- Quick connect couplings with dust caps; specify desired fittings when ordering
- Wall mount brackets and pull cart available
- Dimensions: 29" L x 21" W x 6" D
- Weight: 25 lbs. w/out cylinders



Cylinders Not Included

Accepts either 2216 psi
or 4500 psi cylinders



PAK-3
Cylinders Not Included

PAK-4R™ Rescue Cart With Removable Air Cylinder Tray

Specifications:

- CGA-347 operation at 4500 psi
- Adjustable cylinder straps with velcro
- 3-way high pressure directional cylinder valve
- High pressure male inlet, CGA-347
- Low pressure regulator for pneumatic tools
- 8" diameter ball bearing wheels
- Adjustable output regulator w/relief valve
- In-line check valves
- Telescoping aluminum handle
- Rear hose rack
- Removable air cylinder tray
- Low pressure alarm whistle
- Dimensions: 33" H x 25" W x 17" D
- Weight: 37 lbs. w/out cylinders



PAK-4R
Cylinders Not Included

Model No.	Description
PAK-UNI1	UNI-PAK™, single cylinder PAK, no cylinders
PAK-3	PORTA-PAK™ tray assembly, no cylinders
PAK-4	Bottled air tray assembly complete without cylinders, cart, or cover Includes cylinder directional valve, secondary low pressure regulator, gauge, and outlet fitting
PAK-4R	PAK-4R™ Rescue Cart - same as PAK-4™ with PAK-CRT included
PAK-CRT	PORTA-PAK™ cart only
PAK-CRTC	Cart cover - aluminum
PAK-C	PORTA-PAK™ nylon cover
PAK-WM	PORTA-PAK™ wall mount brackets, 2 each
SVH-DC25	Polyethylene carrier for PAK-UNI1

Air-Wagon™

Mobile Plant Air Cylinder Carts for Emergency Response

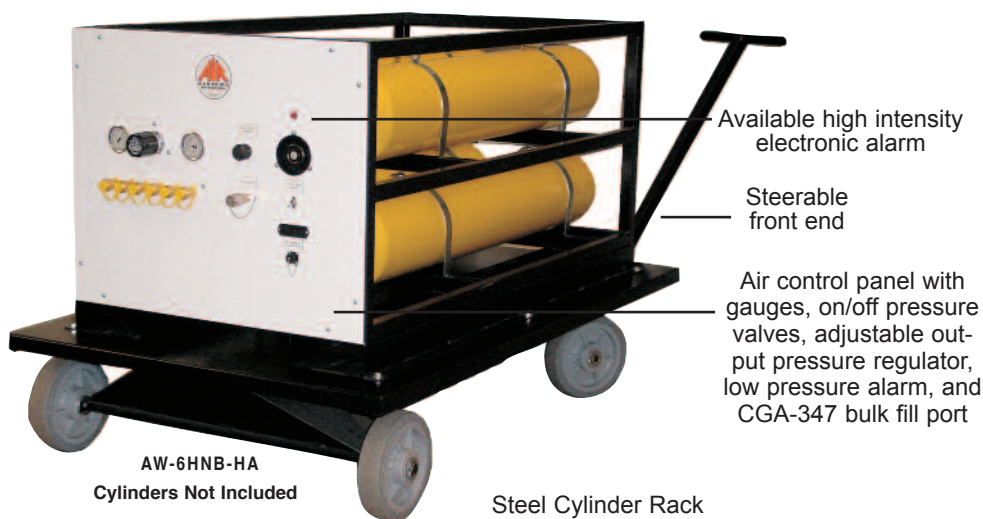
The Air-Wagon™ has been designed to hold four or six large breathing air cylinders for use in industrial plants and hospitals. A six outlet air control panel is installed with a low pressure alarm bell or optional electronic high intensity alarm. A CGA-347 male inlet is provided to bulk fill the air cylinders without removing from the cart. 10" semi-pneumatic tires provide ease of mobility.



**Customize A
Cylinder Cart to
Your Needs!**



**Our Engineering
Department will design a
cart to your specifications
and provide AutoCAD®
drawings for approval.**



AW-6HNB-HA
Cylinders Not Included

Model No.	Description
	For Hazardous Locations
AW-6NB	Air-Wagon™, includes hardware and cylinder straps for 6 cylinders, low pressure alarm bell - 2400 psi, order cylinders separately
AW-6HNB	Air-Wagon™, includes hardware and cylinder straps for 6 cylinders, low pressure alarm bell - 4500 psi, order cylinders separately
	Not for Hazardous Locations
AW-6NB-HA	Air-Wagon™, includes hardware and cylinder straps for 6 cylinders, electronic alarm - 2400 psi, order cylinders separately
AW-6HNB-HA	Air-Wagon™, includes hardware and cylinder straps for 6 cylinders, electronic alarm - 4500 psi, order cylinders separately

PART NUMBERS AND DESCRIPTIONS SUBJECT TO CHANGE

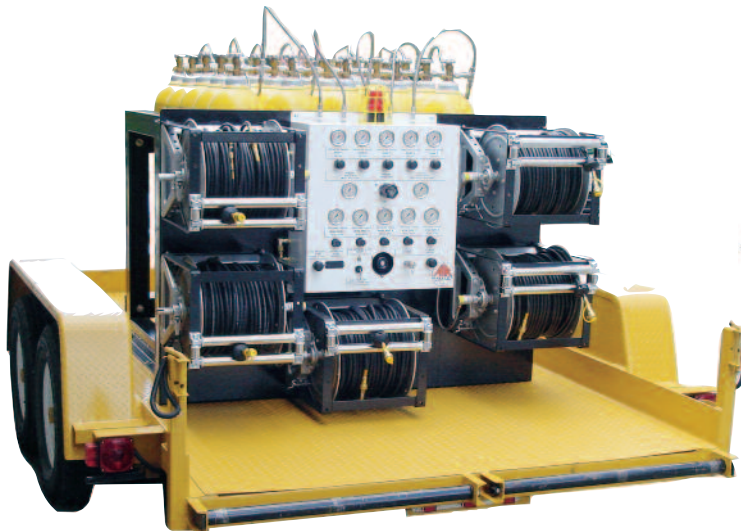
**All carts can be customized to
your particular application.
Consult customer service for
more details**

Custom High Capacity Breathing Air Cylinder Carts and Trailers

Air Systems' experienced technical staff and engineering department can design a breathing air trailer with custom storage and air delivery for ANY application. Custom mobile air cylinder carts are available for industrial plant and emergency response applications.



Emergency Response Open or Enclosed Trailers for Long Duration Breathing or Cylinder Filling Applications



Long Duration Air Storage for Work in Hazardous Response Locations



Economical Air-Responder™ Trailer for Emergency Response Breathing Air and Filling Applications



Slide-In Vehicle Cylinder Rack Systems for Breathing and Filling Applications

Custom Rack Designs for Mobile Breathing Air Applications and Quick Filling of SCBA Cylinders



Contact Customer Service for Details

Tech-Rescue™ Cart

The patented Tech-Rescue™ Cart was designed to provide air for all of the various respirators and unique rescue tools used by Fire and Technical Rescue teams.

Air Systems designed a unique stainless steel cart with a color-designated control panel - one side for primary respirator breathing air and the other for tool / secondary air requirements.

Two 2216/4500 psi cylinders or high pressure cascade (fire truck) cylinder air can be used to operate the air control panel. The standard features of the Tech-Rescue™ Cart make it the most versatile and unique air cart in the fire service industry.

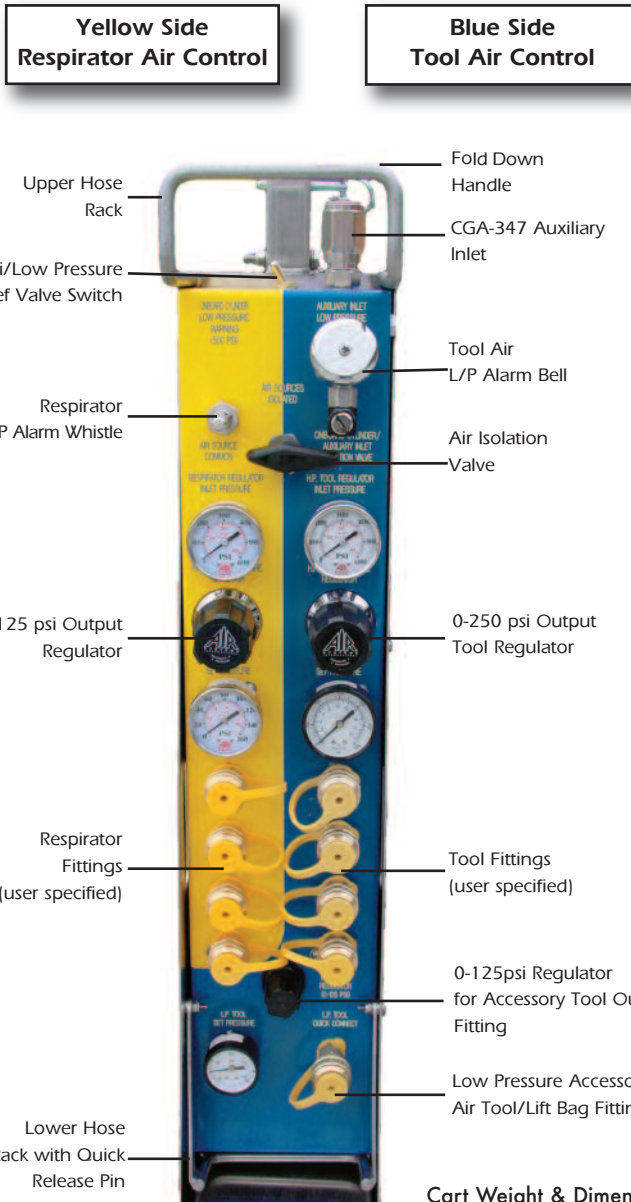
The Tech-Rescue™ cart is available with a 5 ft. Quick-Fill hose assembly (pictured below.)



Quick-Fill Hose Installs on rear of Cart



QFH-5MPTR1 Shown



MP-TR1 CONTROL PANEL

Cart Weight & Dimensions

Width:	21.0"
Depth:	15.5"
Height with Handle Down:	34.5"
Height with Handle Up:	41.5"
Weight:	55 lbs.

U.S. Patent
#D443,744



Emergency Area Lighting Available
See pages 59-64



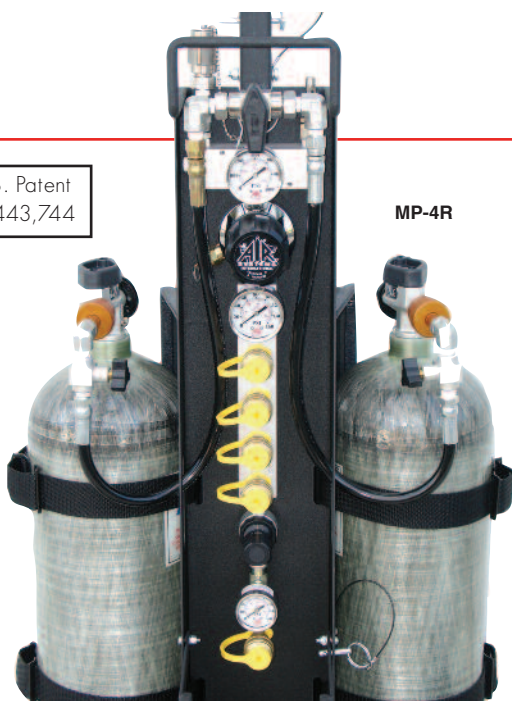
MP-TR1



FD-17 Aeroquip® Quick-Fill Couplings

Model No.	Description
MP-TR1	Tech-Rescue™ Cart, 1/4" Hansen style or Schrader style fittings standard Optional fittings available at an additional charge. (Cylinders sold separately)
QFH-5MPTR1	5ft Quick-Fill hose installed on MP-TR1 (installed at time of order)
AC-87	87cf carbon fiber cylinder, 4500 psi
AC-60	60cf aluminum cylinder, 2216 psi
CW-300	25 ft. (300") high pressure connect whip, CGA-347 hand-tight on each end with bleed valves, connects from cart to truck cascade air supply - 5000 psi
MP-C	Black nylon cart cover, fits all small Multi-Pak™ Series carts

U.S. Patent
#D443,744



MP-4R

MULTI-PAK™ Rescue Air Cart

The patented MULTI-PAK™ series of small air cylinder carts has been designed with the user in mind. Choose from many basic designs to fit the simplest or most complex job application. All of the small MULTI-PAK™ carts feature fold-down handles, recessed air control panels, rounded cart corners, quick release hose racks, and many other unique features.

Choose the pressure range and the number of fittings that you require. All carts have input and output pressure gauges.

Model No.	Description
MP-4R	MULTI-PAK™ Rescue Air Cart, 2-cylinder, 4500 psi, air cart designed for the fire/rescue market. Supplied with 4-outlet manifold, powder coat steel frame, high flow regulator, CGA-347 hand-tight nuts, cylinder selector valve, additional 0-125psi regulator with 1-outlet manifold for low pressure tools or lift bags, no cylinders
MP-4RSS	MULTI-PAK™ Rescue Air Cart, Stainless Steel , same as MP-4R above, no cylinders

Cart Specifications

- High pressure CGA-347 auxiliary inlet
- Secondary low pressure regulator to operate pneumatic tools and lift bags
- Fold down handle
- Intrinsically safe low pressure alarm whistle
- High flow adjustable regulator
- Input and output pressure gauges
- Solid aluminum block manifold
- Nylon cylinder straps with Velcro®
- Quick release hose rack
- In-line check valves
- 8" Semi-pneumatic tires
- Steel frame with black powder coat paint
- Stainless Steel frame available
- Cylinder selection switch



The Air-Responder™ Mobile Breathing Air Trailer

The Air Responder™ series of breathing air trailers are designed for mobile quick response at an economical price. The trailers provide breathing air for airline respirators, rescue air tools, or SCBA quick filling and come in two series. The 100 series is an open frame six (6) cylinder trailer. The 200 series is an enclosed eight (8) cylinder trailer. Both trailers have a rear air control panel with respirator couplings and CGA-347 fittings to bulk fill the storage cylinders and provide for attachment of a quick fill hose for SCBA filling. An optional cascade fill panel is available for both trailer series. The front of each trailer will hold optional storage boxes, a small fill compressor or a generator.



AR-101
Cascade Air Trailer

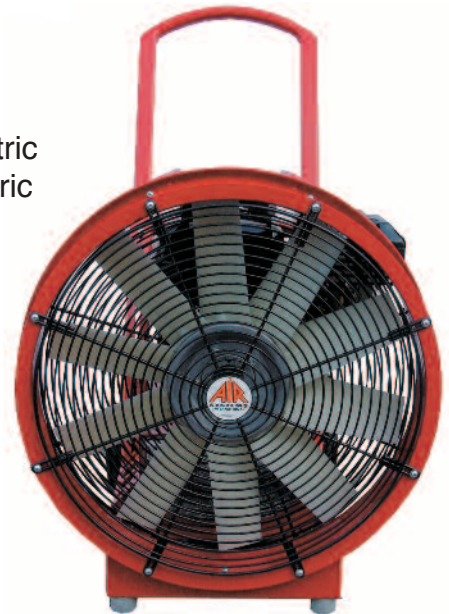


Spitfire™ Positive Pressure Ventilators

Available in:

- Standard Electric
- Explosion-proof Electric
- Variable Speed Electric
- Gasoline

U.S. Patent #'s
D484,586S,
D484,589S
Other U.S. and Foreign
Patents Pending



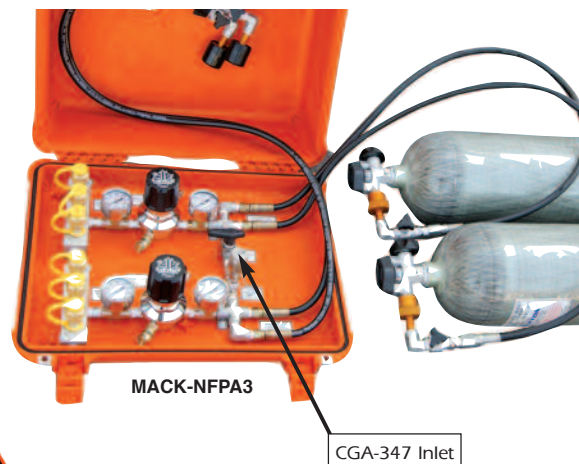
Model No.	Description	HP	CFM
PPV-20GH	Gasoline Honda	6.0	15,277
PPV-20E	Single Speed Electric-TEFC	1.5	11,198
PPV-20EV	Variable Speed Electric-TEFC	1.0	10,987
PPV-20EXP	Explosion-Proof Electric, TEFC,, Class 1, Div. 1, Group D, Class II, Div. 1, Groups E, F, G	1.0	9,185

MACK-NFPA™ Series

Air Distribution System Designed Specifically for Confined Space Rescue Teams

The MACK-NFPA™ series has been developed specifically for Fire/Rescue teams working under NFPA guidelines. The NFPA version of the MACK™ unit comes in two standard models. Each has two separate regulator/manifold systems and two SCBA connect whips are provided for each regulator. In the event of a regulator malfunction, rescue can be performed on the standby regulator system. The basic unit described above, Model MACK-NFPA1, can have a regulator isolation valve added to allow one or both air sources to be used simultaneously; this addition forms the Model MACK-NFPA3 which has a CGA-347 high pressure inlet included.

Model No.	Description
MACK-NFPA1	Dual independent regulators with 3-outlet manifolds, dual low pressure alarms, 4 each 5 ft. connect whips
MACK-NFPA3	MACK-NFPA1 with the addition of a regulator isolation valve and CGA-347 H/P inlet and cover cap



MACK-NFPA3

CGA-347 Inlet

MACK™ Systems

Air Distribution for Breathing, Filling, and Rescue Applications

The MACK™ units have been designed as a series of portable air distribution boxes to meet the most demanding air handling needs of the Fire, Rescue, and Emergency Response industry. Each unit has been designed and tested by professional firefighters to meet the rigorous industry and NFPA requirements.

All models have been manufactured to provide emergency low pressure breathing air from either SCBA cylinders or from a bank of large storage cylinders located on department vehicles. More advanced models offer multiple air pressure regulators for confined space rescue operations, mid-range pressure for rescue tool devices, and high pressure emergency air cylinder filling systems. Choose a standard MACK™ unit to fit your needs or call our Customer Service Department to design a unit for your special air handling applications.



The MACK-2™ is ideal for emergency refilling SCBA cylinders from aerial command stations



MACK-1

All MACK™ Series units start with the MACK-1 basic functions. One or two SCBA cylinders provide air to the system. A CGA-347 high pressure inlet is also provided to allow continuous operation from truck mounted air cylinders. A low pressure regulator provides 0-125 psi air to a four outlet respirator manifold. A low pressure alarm whistle and a DC lamp to illuminate the case interior are provided as standard.



MACK-2™

Model No.	Description
MACK-1	4-outlet manifold, 5000 psi regulator, 2 high pressure cylinder whips, 1 H/P inlet port, L/P alarm whistle
MACK-2	MACK-1 with the addition of a high pressure fill regulator and 1 fill whip (optional 2nd fill whip available for installation)
MACK-3	8 L/P respirator/tool outlets (0-150psi), 3 medium pressure outlets (0-250psi), 4 H/P inlet whips, 1 H/P CGA-347 inlet and pressure cap, L/P alarm whistle, optional fill regulator and hose
MACK-3FA	Accessories Fill regulator assembly for MACK-3, includes 5ft. fill hose

The MACK-3™ System

Designed and Tested by Fire & Rescue Professionals

Four separately regulated air systems provide a portable air distribution package for any pressure requirement.

**MACK-3 with
the FA Option**



Light for operation in low
light conditions

Fill whip
included with
MACK-3FA option

Low pressure breathing
air manifold, 125 psi
max

System isolation valve used
to isolate breathing air
manifolds so unit can be
used in rescue operations.
This design was
implemented to conform
with NFPA confined space
entry rescue regulations.

Medium pressure tool
manifold, 250 psi max

Low pressure
alarm whistle

Inlet whips are
connected to 2216 or
4500 psi cylinders

Inlet whips are connected
to 2216 or 4500 psi
cylinders

CGA-347 male adapter
used as a high pressure
auxiliary inlet. It can be
connected to a high
pressure compressor or a
truck mounted cascade
system.

Low pressure breathing air
manifold, 125 psi max

Optional fill
regulator to fill
SCBA cylinders

Pressure
Gauge

Fill Whip Connection

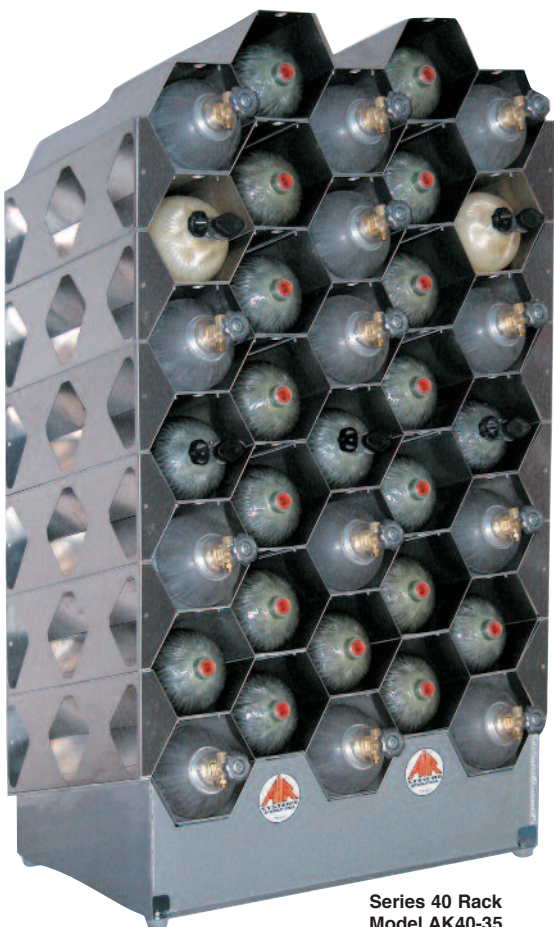
**MACK-3FA
Fill Regulator Assembly**

AIR-KADDY™

Modular Aluminum SCBA Cylinder Storage Racks

The AIR-KADDY's™ unique modular design allows for expansion as needed to accommodate your SCBA storage requirements - today and in the future! Available in Free Standing, Series 40, and Vehicle Style, Series 24. All racks are lined with nylon pads to prevent cylinder scratches.

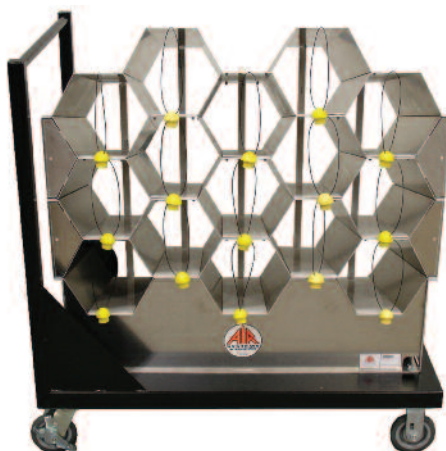
Series 24 is designed to fit in fire/rescue trailers and trucks requiring a narrower profile.



Series 40 Rack
Model AK40-35



Series 24 Rack
Model AK24-11TS



Rack can be ordered with an optional L-Cart for easy transportation



Thread Saver®

Thread Savers®
Add TS to the model number when ordering to have Thread Savers® installed.

Model No.	Description
AK24-8	Series 24: 25 1/4" W X 22 1/4" D AIR-KADDY™ 8 cylinder rack - 32"H AIR-KADDY™ 11 cylinder rack - 48"H AIR-KADDY™ 18 cylinder rack - 60"H AIR-KADDY™ 24 cylinder rack - 76"H
AK24-11	
AK24-18	
AK24-24	
AK40-15	Series 40: 37 1/2" W X 22 1/2" D AIR-KADDY™ 15 cylinder rack - 36"H AIR-KADDY™ 25 cylinder rack - 60"H AIR-KADDY™ 35 cylinder rack - 68"H AIR-KADDY™ 40 cylinder rack - 76"H
AK40-25	
AK40-35	
AK40-40	
VAL-TS	Thread Savers® Thread Saver® - cylinder thread protector



Products engineered to your specifications

Custom Fire and Rescue Trailers and Accessories

Air Systems' experienced technical staff and engineering department can design a mobile breathing air response system tailored to your exact specifications. Complete our design questionnaire available on page 70 or online at www.airsystems.com and we will provide AutoCAD® drawings, specifications and pricing.



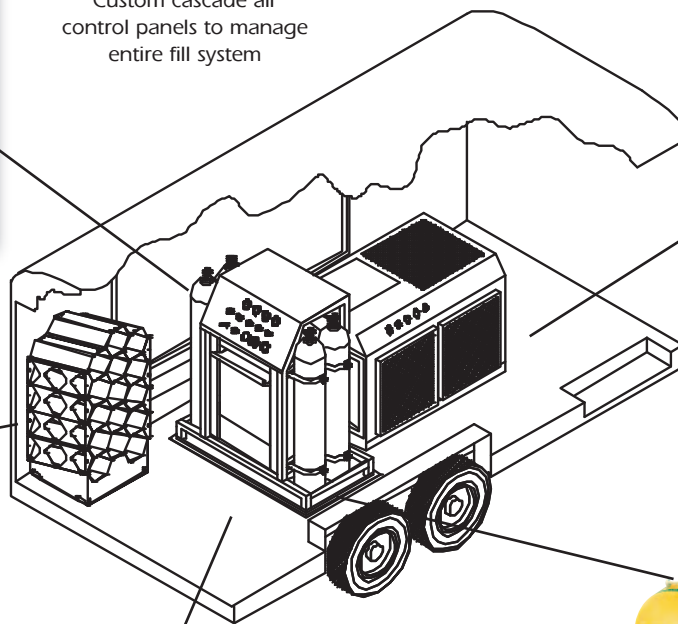
Custom cascade air control panels to manage entire fill system



Gasoline or Diesel Fill Compressors from 3.5 to 26 cfm



Custom SCBA Storage Using Air Systems' Unique AIR-KADDY™ SCBA Cylinder Racks



Air Storage Systems in horizontal or vertical configurations



NFPA Compliant Full Containment Fill Stations from 2 to 4 cylinder fill positions



Fully Enclosed Breathing Air Trailer with Fill Compressor, Air Storage Cylinders and Containment Fill Station

Optional sound proofing, air conditioning or heating packages, generators and lighting



Slide in vehicle rack systems to upgrade rescue vehicles

Hazardous Location Identification: Selecting Proper Equipment

Confined spaces are some of the most dangerous and potentially life-threatening work environments in industry, making ventilation, respiratory and PPE equipment an integral component of a total safety program. U.S. OSHA states “electrical equipment must be approved by a Nationally Recognized Testing Laboratory (NRTL) “ . . . and stated in 29 CFR 1910.303(a). In addition, NRTL’s must approve this equipment using U.S. recognized test standards, 29 CFR 1910.7.” Proper selection and training with approved hazardous location safety equipment can reduce the cause of potential accidents and even loss of life. In order to select the proper equipment, the worker must first determine whether the location is considered a “Hazardous” or “Non-Hazardous” location.

What is a Hazardous Location?

All confined spaces should be considered a “Hazardous Location” until proven otherwise. Federal OSHA refers to the National Electrical Code (NEC) as the “Bible” for reference information concerning hazardous locations. NEC defines a hazardous location as those areas ***“where fire or explosion hazards may exist due to flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers or flyings.”***

NEC classifies hazardous locations in three ways: Type, Condition, and Nature.

Type

Three “Types” of hazardous conditions exist called Classes, describing the type of hazard expected:

CLASS I (NEC-500-5) - Areas in which flammable gasses or vapors may be present in the air in sufficient quantities to be explosive or ignitable.

CLASS II (NEC-500-6) - Areas made hazardous by the presence of combustible dust

CLASS III (NEC-500-7) - Areas in which easily ignitable fibers or flyings present, due to the type of material being handled, stored, or processed

Condition

Two kinds of hazardous “Conditions” exist called Divisions:

DIVISION I (NEC-800-5, 6, 7) - The hazard is present continuously

DIVISION II (NEC-500-5, 6, 7) - The hazard is atypical - may occur accidentally such as a ruptured drum of fuel or chemical spill

Nature

The “Nature” of the hazardous substance is called a Group (NEC-500-3).

Groups A, B, C, or D where Group A is most volatile (Acetylene) and Group D would be least flammable (Propane). All Class I locations, Flammable Gases and Vapors, fall into Groups A, B, C or D.

Groups E, F, and G where Group E is conductive and explosive metal dust, Group F is carbon (coal) dust, and Group G is flour and grain dust. All Class II locations, Combustible Dusts, fall under Groups E, F or G.

Not Grouped - Hazards consisting of textile and wood fibers. Class III locations, Ignitable Fibers for Flying, are not grouped.



Ventilation Tips

- 1) Proper ventilation procedures should be followed in accordance with all Federal, State, and local laws. For work in hazardous locations, follow ANSI/API 2015 and 2016 procedures.
- 2) Always test the confined space for hazardous gases and sufficient oxygen with a calibrated multi-gas monitor prior to ventilating the space. After ventilating for a sufficient amount of time, re-test the confined space before entering the space. Ventilation must remain in operation during entry.
- 3) Use a purge time chart, provided on Air Systems’ blowers, to calculate purge times prior to entering a confined space. Each 90° bend in a section of 8” duct will reduce flow approximately 10-15%.
- 4) If toxic or combustible gases or low oxygen levels are encountered, increase ventilation purge times by 50% and retest the air quality.
- 5) When ventilating a manhole or tank, always set the blower back from the opening a minimum of five (5) feet. This should prevent any hazardous gases that may be purged from the confined space from being drawn back into the intake of the blower and forced back into the confined space.
- 6) Never block or restrict entry and egress to or from a confined space opening. Always use Air Systems’ Conductive Saddle Vent® System placed in the opening of the manhole or tank to allow continuous ventilation without restricting entry and egress to the opening.
- 7) With gases heavier than air, ventilation duct should be placed at the bottom of the confined space allowing the blower’s air to push the gases out the top of the confined space.
- 8) Always use non-sparking tools in and around a hazardous work site
- 9) When using a Venturi style pneumatic air horn (also called an eductor) on a steel tank, make sure the aluminum base is not dragged along the surface of the steel tank; this may cause a spark where rust is forming. Always make certain that the Venturi blower has been properly bonded to the tank prior to ventilating and assure the tank is properly grounded.
- 10) Always have proper respiratory equipment for the ventilated work space and for emergency rescue.
- 11) The build-up of static electricity is more prevalent during cool dry conditions, typically below 50% relative humidity. Depending on the work environment, anti-static clothing and special static removal devices may be necessary to prevent ignition from static electrical discharge.

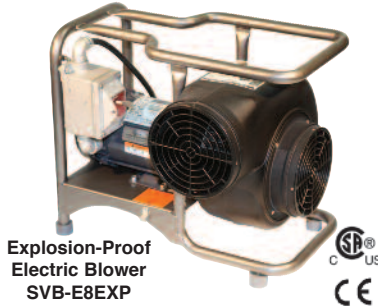
Ventilation Equipment Selection for Hazardous Locations

Once it is determined there is a hazardous location or potential for a hazardous work location, it is necessary to take every precaution to guard against ignition of the hazardous atmosphere. The traditional "Combustion Triangle" is made up of three elements: 1) fuel, 2) oxygen and 3) an ignition source. All three must be considered when developing a plan to ventilate hazardous or potentially hazardous environments.



Hazardous location electrical equipment, approved by a Nationally Recognized Testing Laboratory (NRTL) such as UL or CSA, is designed and constructed to eliminate the potential for ignition of the work environment.

The following is a list of equipment criteria to consider for all hazardous locations:



Explosion-Proof Electric Products - Units should have a hazard label stating Class, Group, and Division approvals listed from the approving agency, e.g. CSA or UL. Blowers should have a grounding lug to ground the unit and safely remove the build-up of static electricity to a safe grounded source. These types of electric blowers should have a metal frame and housing or a conductive plastic housing to assure a good ground to the electrical source and an aluminum non-sparking blower wheel to prevent metal sparking.

Intrinsically Safe Equipment - Electrical equipment should be certified as intrinsically safe due to its low voltage properties. Pneumatic or air driven equipment cannot cause a spark and do not require third party electrical approval because there are no electrical parts. Even with intrinsically safe equipment, proper grounding and non-sparking components should still be utilized at all times.



Conductive Duct
SVH-CND15



Conductive Ducting - Choose ventilation duct that has fabric made of conductive material. This type of duct will reduce the potential build-up of static electricity on both the interior and exterior surfaces of the duct that can result from the movement of air and small dust particles during ventilation. Air Systems adds a grounding wire to the conductive duct's interior wire helix; it attaches to the blower so that any static charges can be removed to either the blower's ground lug or to Air Systems' Conductive Saddle Vent® Ventilation System.

Controlling Static Electricity in Hazardous Ventilation Locations

The Saddle Vent® was developed and patented by Air Systems International over 25 years ago as a safety tool to maintain continuous ventilation while allowing unrestricted entry and egress to a manhole or tank. Air Systems has continued to improve the Saddle Vent® by developing a fully conductive Saddle Vent® and a ventilation method for removing static electricity from the entire ventilation system. This system consists of the entire length of ventilation duct all the way back to the blower and safely discharging static to a safe electrical ground.

The new recommended method, The Conductive Saddle Vent® Ventilation System, uses conductive ventilation ducting connected to the Conductive Saddle Vent® which is then connected to an explosion-proof or pneumatic blower. The entire system is assembled above ground in less than five minutes before installing it in the opening to the manhole or tank; it can then be tested for electrical conductivity using a standard ohm meter.

Achieving an electrical resistance reading less than 500K ohms will assure an electrical path is made for static electricity to safely discharge back to the blower and its grounded electrical connection. This ventilation system is the only safety industry method for safely removing static build-up during confined space entry; it provides continuous confined space ventilation, unrestricted entry and egress and the entire system can be tested prior to commencing work operations in a hazardous work area.

Controlling static electricity discharge will prevent spontaneous ignition of hazardous vapors and dusts. As a work tool, The Conductive Saddle Vent® Ventilation System will allow workers to concentrate on the many other hazards associated with working in a confined space while maintaining continuous ventilation.



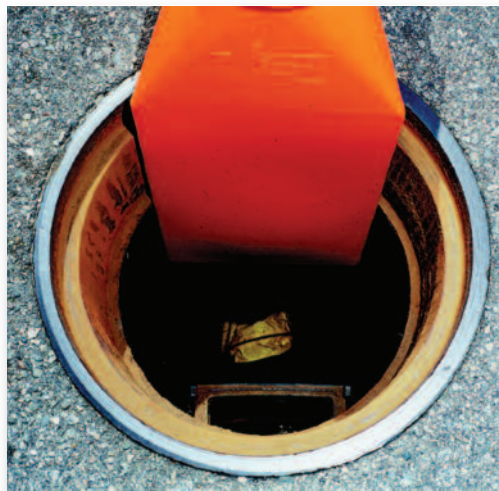
Conductive
Saddle Vent®
SV-189CND

The Original Saddle Vent®

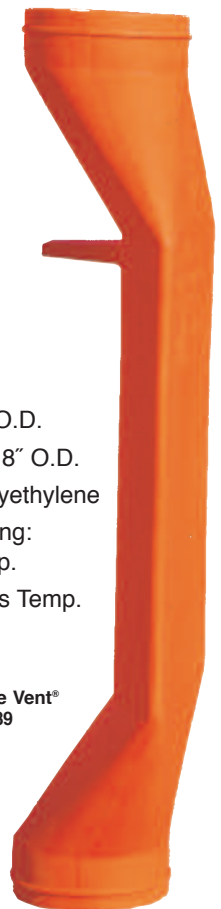
Designed for use in Non-Hazardous Locations

The Saddle Vent® was developed by Air Systems and in use around the world for over 20 years to make it easier and safer for workers to enter and exit a confined space. The Saddle Vent® takes up only 3 inches in a manhole opening and functions as a fresh air conduit to the workers in the confined space. With the Saddle Vent® in place, continuous ventilation is supplied to the workers by eliminating the need to remove the air duct each time a worker needs to enter or exit a confined space, increasing safety and productivity.

The Saddle Vent® allows unrestricted entry and exit and improves ambient light in a confined space opening



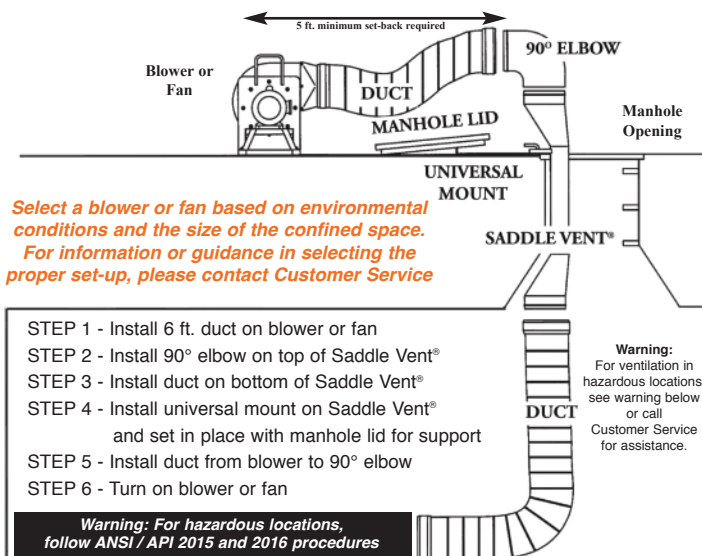
Length: 43.5"
Width: 14.5"
Depth: 3.5"
Top Opening: 8" O.D.
Bottom Opening: 8" O.D.
Construction: Polyethylene
Temperature Rating:
+250°F Melt Temp.
- 158°F Brittleness Temp.



The Saddle Vent®
SV-189

The Saddle Vent® Ventilation System

Typical Saddle Vent® Setup Procedure



Select a blower or fan based on environmental conditions and the size of the confined space.
For information or guidance in selecting the proper set-up, please contact Customer Service

- STEP 1 - Install 6 ft. duct on blower or fan
- STEP 2 - Install 90° elbow on top of Saddle Vent®
- STEP 3 - Install duct on bottom of Saddle Vent®
- STEP 4 - Install universal mount on Saddle Vent®
and set in place with manhole lid for support
- STEP 5 - Install duct from blower to 90° elbow
- STEP 6 - Turn on blower or fan

Warning:
For ventilation in hazardous locations, see warning below or call Customer Service for assistance.

WARNING: HAZARDOUS LOCATION OPERATIONS

Use a certified explosion-proof blower or fan, conductive ducting and the conductive Saddle Vent® system. Attach all grounding wires and assure a complete circuit to the blower in order to remove static charges.

**Saddle Vent® is the
Registered Trademark of
Air Systems International**

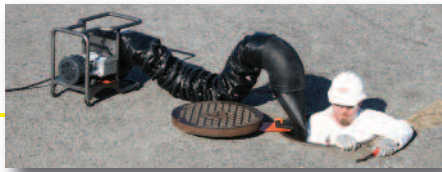


Universal Mount
SV-UM



90° Elbow
SV-90

Model No.	Description
	Non-Hazardous Locations
SV-189	The Saddle Vent®
SV-90	90° elbow for Saddle Vent®
SV-UM	Universal Saddle Vent® Mounting Bracket



Confined Space Ventilation

The Conductive Saddle Vent®

The Conductive Saddle Vent® System

Approved for use in Hazardous Locations
The Latest Innovation in Saddle Vent® Technology



The Conductive Saddle Vent® System is now standard with our explosion-proof & pneumatic blower kits or it can be purchased separately to upgrade your current ventilation procedures.

The Conductive Saddle Vent® System Set Up Procedure

Step 1) Select an electric explosion-proof or pneumatic blower with an installed metal grounding lug.

Step 2) Read and follow recommended work procedures found in ANSI/API 2015 and 2016 prior to entering a tank or confined space.

Step 3) Use only conductive ducting supplied with a continuous metal helix and a static ground wire connected to the helix. The ground wire is connected to the metal ground lug on the blower. (See Pic. 1).

Step 4) Attach the conductive elbow to the top of the black Conductive Saddle Vent®, (see Pic. 2), and attach the ground wire from the duct to the elbow. If no elbow is used, an alternate ground lug is provided on the top of the Saddle Vent®.

Step 5) Attach conductive duct to the base of the Saddle Vent® and attach the ground wire to the Saddle Vent®.

Step 6) Test the ventilation set-up for conductivity prior to starting ventilation. Use a volt/ohm meter set to read ohms in "thousands". Attach a lead from the meter to the farthest end of the duct's grounding wire and the other lead touching the ground lug on the blower. A reading less than 500K ohms will assure a good ground is achieved to allow any static charges to flow toward the grounded source (See Pic. 3). Pneumatic blowers should have a ground wire run from the blower to a grounded source.

Step 7) The ventilation system is now ready for use. Place the duct and Saddle Vent® system in the manhole and secure with the universal mount. Follow the "Typical Saddle Vent® set-up procedure found in your blower's instruction manual.

For work in hazardous locations, read and follow recommended work procedures found in ANSI/API 2015 and 2016 prior to entering a tank or confined space.

Saddle Vent® Safety Improvements

The original Saddle Vent® was constructed of standard polyethylene which carries the potential of static electricity build-up on its surface. Static electricity is a source of ignition for fire and explosions.

Air Systems developed an improved Saddle Vent® to safely remove potential static electricity charges from the ventilation system. The use of conductive polyethylene to construct the Saddle Vent® and conductive ventilation duct now provides the safest possible confined space ventilation procedure available.

The fully Conductive Saddle Vent® removes static electricity from the entire ventilation system when installed properly.

Saddle Vent® is a Registered Trademark of Air Systems International, Inc.

U.S. Patents #6,843,274
#7,467,645
#7,992,593 B2

Canadian Patents #2,561,299
#2,436,809

China Patents CN1813137B

European Patents #1491695

Australian Patents 2004 202394

Other U.S. and International Patents Pending



Length: 43.5"
Width: 14.5"
Depth: 3.5"
Top Opening: 8" O.D.
Bottom Opening: 8" O.D.
Construction: Polyethylene
Temperature Rating:
+250°F Melt Temp.
- 158°F Brittleness Temp.

Conductive Saddle Vent®
SV-189CND

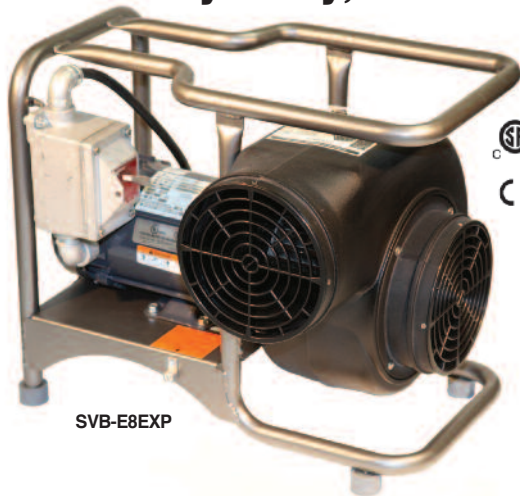


90° Conductive Elbow
SV-90CND

Model No.	Description
SV-189CND	Hazardous Locations
SV-90CND	The Conductive Saddle Vent®
SV-UM	90° elbow for Conductive Saddle Vent®
	Universal Saddle Vent® Mounting Bracket

Centrifugal Blowers

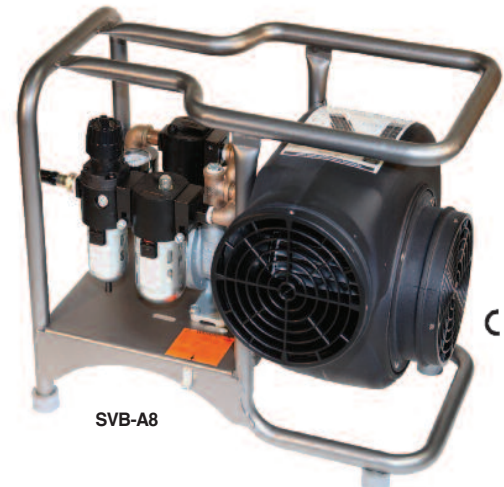
Heavy Duty, Industrial Grade, Ergonomically Designed



SVB-E8EXP



*International blowers available.
Contact Customer Service for details and specifications.*



SVB-A8



Explosion-Proof Electric Blower

- Explosion-proof switch installed and wired with 25 ft cord, no plug, user wired per NEC requirements
- 3/4 HP electric motor, 115 VAC, 12.6 amp
- Approved for Class I, Div. 1, Groups C and D Class II, Div. 1, Groups E, F, G
- CSA approved and CE registered
- Conductive Polyethylene fan housing
- Aluminum non-sparking blower wheel
- Static grounding lug installed
- Powder coat tubular steel frame with dual handles
- Molded conductive safety guards
- 8" intake and exhaust flange
- Weight: 68 lbs.
- 1570 cfm, free air delivery
- 1047 cfm, 25ft duct, 1 - 90° bend

Pneumatic Air Powered Blower

Intrinsically Safe Operation

- 4HP air motor, operates from 10 - 100 psi
- Ultra-quiet operation – under 80 dbA
- CE registered
- Conductive Polyethylene fan housing
- Aluminum non-sparking blower wheel
- Static grounding lug installed
- Powder coat tubular steel frame with dual handles
- Adjustable flow output regulator
- In-line moisture separator/lubricator provided as standard
- Air Systems' unique muffler and oil coalescing filter installed at air motor discharge
- 8" intake and exhaust flange
- Molded conductive safety guards
- Weight: 48 lbs.
- 1500 cfm free air delivery, at min psi and cfm
- 1040 cfm free air delivery, at min psi and cfm, 25ft duct 1 - 90° bend
- 3000 cfm free air delivery, at max psi and cfm
- 1725 cfm free air delivery, at max psi and cfm, 25ft duct 1 - 90° bend

Inlet Filters are available for all models. See page 57 for details

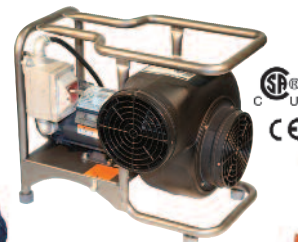
Saddle Vent® Ventilation™ Technology



All Conductive Blower Kits Include:

- 1) Pneumatic or Explosion-proof Blower
- 2) Conductive Saddle Vent®- SV-189CND
- 3) 90° elbow for Saddle Vent®- SV-90CND
- 4) 15 ft. duct - SVH-CND15
- 5) 6 ft. duct - SVH-CND6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UM

Conductive Saddle Vent® Ventilation Kits for Hazardous Locations



SVB-E8XCUP



Model No.	Description
SVB-E8XCUP	Explosion-Proof 8" Electric Blower Kit, includes SVB-E8EXP blower and SV-CUPCND Conductive Saddle Vent® Ventilation Kit
SVB-A8CUP	Pneumatic 8" Blower Kit, includes SVB-A8 blower and SV-CUPCND Conductive Saddle Vent® Ventilation Kit
SV-CUPCND	Kit only - Includes Conductive Saddle Vent® and elbow, 6 and 15 ft Conductive duct, Duct canister, and universal mount

Confined Space Ventilation

Hazardous Location Ventilators

Saddle Vent® Ventilation™ Technology

Inline Axial Fan

The 10" in-line axial fan has been designed to be used as a stand alone fan or it can be attached in series to run long lengths of ventilation duct. Intake and exhaust flanges allow for either 8" or 10" duct to be attached to either end of the blower to achieve positive or negative ventilation. The blower is made of light weight steel and is available in standard electric or explosion-proof electric.

10" to 8" Duct Adapters
Supplied with Blower for
Intake and Exhaust



*ATEX Approved Motor Available.
Contact Customer Service for
details and specifications.*



10" In-Line Explosion-Proof Electric Axial Fan

- Explosion-proof Electric Motor: 1/3 HP, 115 VAC, 1-phase, 60 Hz. UL and CSA approved for Class 1, Div. 1, Groups C and D, Class II, Groups E, F, and G - built-in on/off switch
- Automatic reset thermal overload
- Dual grounding lugs installed on steel housing
- Frame: All steel, powder coat red with rubber base feet
- Inlet/Exhaust flange made of molded conductive polyethylene
- Power cord: 10ft. power cord without plug, user wired per NEC requirements
- Dimensions: 16"L x 16.75"H x 12.5"W
- Weight: 32 lbs.
- 72 dbA @ 3ft.
- 1390 cfm, free air delivery
- 973 cfm, 25ft duct, 1 - 90° bend

Model No.	Description
SVF-10EXP	10" Explosion-proof Electric In-Line Fan - plug not provided
SVF-10X220	10" Explosion-proof Electric 220 VAC, 50/60 Hz, ATEX approved motor

Conductive Saddle Vent® Ventilation Kits for Hazardous Locations

Conductive Fan Kits Include:

- 1) Explosion-proof Fan, SVF-10EXP
- 2) Conductive Saddle Vent®- SV-189CND
- 3) 90° elbow for Saddle Vent®- SV-90CND
- 4) 15 ft. duct - SVH-CND15
- 5) 6 ft. duct - SVH-CND6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UM



Model No.	Description
SV-CUPCND SVF10EXCUP	Includes Conductive Saddle Vent® and elbow, 6 and 15 ft Conductive duct, Duct canister, and universal mount Explosion-Proof 10" Electric Fan Kit, includes SVF-10EXP fan and SV-CUPCND Conductive Saddle Vent® Ventilation Kit



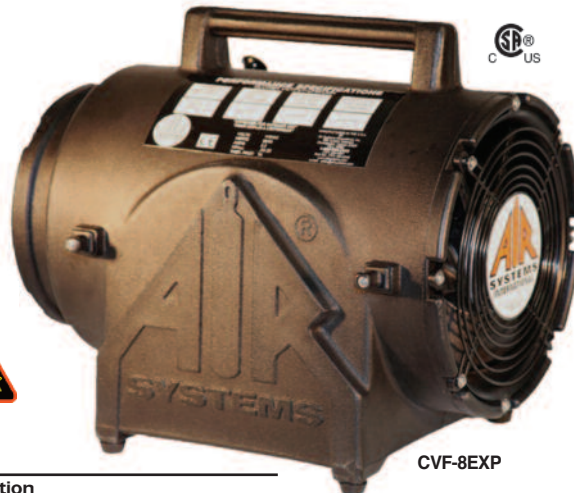
Contractor Grade Explosion-Proof Axial Fans

The contractor's series of ventilation fans is the latest addition to Air Systems' ventilation product group. Known for product quality and performance, Air Systems' offers a rugged polyethylene ventilation line designed to accommodate a variety of applications as well as demanding jobsite conditions at an economical price point.

Fans meet OSHA 29 CFR 1910.303(a) and 1910.7 electric certification requirement.

Applications:

- Boiler Work
- Utility Companies
- Telecommunications
- Petrochemical Tanks
- Construction
- Electrical Transformers
- Maintenance
- Manhole Entry
- Tank Cleaning



CVF-8EXP

Explosion-Proof Electric Ventilation Fan

- 8" Fan, 115 VAC, 1/3 HP
- 10ft. Power Cord
- Built-In Sealed On/Off Switch, No Plug, user wired per NEC requirements
- UL/CSA Approved Explosion-Proof for Class I, Groups C and D, Class II, Groups E, F, and G environments
- Weight: 19 lbs.
- 974 cfm, free flow
- 786 cfm, 15ft. duct, 1 - 90° bend
- 661 cfm, 15ft. duct, 2 - 90° bends

Model No.	Description
CVF-8EXP	Contractors Explosion-Proof Axial Fan
CVF-8X220	Contractors Explosion-Proof Axial Fan - 220 VAC, 50/60 Hz, ATEX approved motor
CVF15CANEX	Contractors Explosion-Proof Canister Fan, includes CVF-8EXP Fan, 15 ft conductive duct, conductive canister, no plug, user wired per NEC requirements
CVF25CANEX	Contractors Explosion-Proof Canister Fan, includes CVF-8EXP Fan, 25 ft conductive duct, conductive canister, user wired per NEC requirements



CVF15CANEX
WITH REMOVABLE DUCT CANISTER
WEIGHT: 35 LBS.



CVFEX15KIT
Kit Weight 64 Lbs

Conductive Saddle Vent® Ventilation Kits for Hazardous Locations

The Conductive Saddle Vent® is
now available in a low cost contractor's kit

Air Systems' Conductive Saddle Vent® System provides optimal safety for your confined space ventilation needs. One part number at one low price provides a high quality ventilation system with a variety of applications for hazardous work environments.

Model No.	Description
CVFEX15KIT	Contractors Ventilation Kit, includes CVF-8EXP Fan, 6 ft conductive duct with conductive canister and 15 ft conductive duct, conductive Saddle Vent®, conductive 90° elbow, and universal mount
CVFEX25KIT	Contractors Ventilation Kit, includes CVF-8EXP Fan, 6 ft conductive duct with conductive canister and 25 ft conductive duct, conductive Saddle Vent®, conductive 90° elbow, and universal mount

Confined Space Ventilation

Hazardous Location Ventilators

Venturi Blowers

Often Called "Air Horns" or "Eductors"

Venturi Blower Features

- Used to ventilate hazardous vapors or fumes safely
- Operates on compressed air or steam
- No moving parts
- Static grounding lug is standard
- Lightweight cast aluminum base
- Galvanized steel horn (replaceable)
- Steel Handle
- Use in high heat locations
- Operating pressures up to 140 psi
- Larger models available up to 8000 cfm capacity
- API standard base sizes



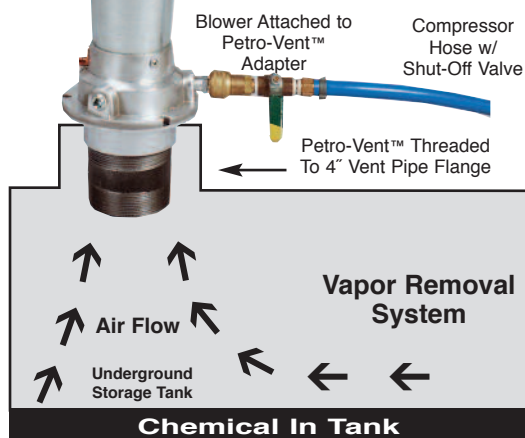
↑ Air Flow ↑

Petro-Vent™ Tank Ventilator

This blower has been designed to meet ventilation requirements for underground storage tanks. A special flange adapter has been developed to thread directly on the 4-inch vent pipe found on most storage tanks. The ASI-1000, ASI-1200 and ASI-2900 bolts directly on the compatible flange.

Model ASI-1000 & ASI-1200
Order adapter ASI-12ADPT

Model ASI-2900
Order adapter ASI-29ADPT



Pneumatic Circular Jet Fan

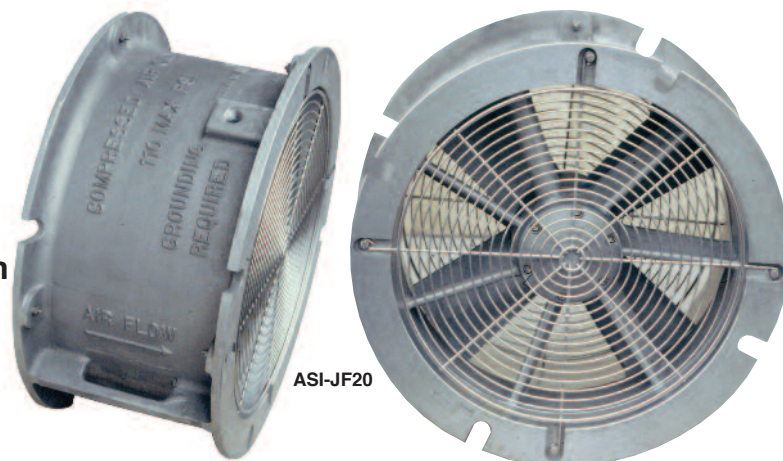
Designed for Hazardous Location Tank Ventilation

Model No.	Fits API Diameter Inch	Max Free Air CFM	Inlet Pressure PSI	Inlet Flow Required CFM	Weight Lbs.
ASI-JF20	20	10,400	40-110	60-290	95
ASI-JF24	24	16,130	40-110	76-338	122



Note: Order air inlet fittings separately

	50 PSIG		70 PSIG			90 PSIG	
Model	Total Air Flow (CFM)		Total Air Flow (CFM)			Total Air Flow (CFM)	
ASI-1000	935		1274			1422	
ASI-1200	1211		1429			1580	
ASI-2900	2770		3340			3752	
ASI-4100	3785		4562			5041	
Model	Air Consumed (CFM)		Air Consumed (CFM)			Air Consumed (CFM)	
ASI-1000	38		53			64	
ASI-1200	38		53			64	
ASI-2900	76		99			127	
ASI-4100	117		152			197	
Model	Overall Length	Diameter of Base	Diameter of Horn	NPT	Bolt Circle	Base Slot	Weight
ASI-1000	16.31"	7.38"	6.19"	1/2"	6.75"	0.31"	5.3 lbs
ASI-1200	32.12"	7.38"	7.37"	1/2"	6.75"	0.31"	8.1 lbs
ASI-2900	44.00"	11.16"	13.00"	1"	10.28"	0.43"	22.1 lbs
ASI-4100	46.50"	14.31"	14.37"	1"	13.18"	0.56"	32.3 lbs



Confined Space Ventilation

Non-Hazardous Location Ventilators

Saddle Vent® Ventilation™ Technology


Gasoline Powered Ventilation Kit
Model SVB-G8CUP



Centrifugal Blowers

Heavy Duty, Industrial Grade,
Ergonomically Designed

Did
You
KNOW?

Air Systems' electric blowers
and fans have been tested
by  to meet OSHA 29 CFR
1910.303(a) and 1910.7 for
electrical certification.

Single Speed Electric Blower

- 3/4 HP electric motor, TEFC, 115 VAC
- 10.8 amp, 60 Hz
- GFI power cord
- Aluminum non-sparking blower wheel
- Polyethylene fan housing
- Powder coat tubular steel frame with dual handles
- Molded polyethylene safety guards
- 8" intake and exhaust flange
- Inlet filters available
- Weight: 53 lbs.
- Dimensions: 23" L x 12" W x 19"H
- 1570 cfm, free air delivery
- 1047 cfm, 25ft. duct, 1 - 90° bend



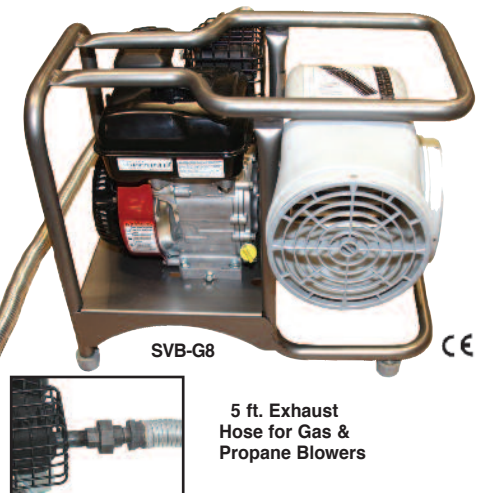
SVB-E8



SVB-E8EC



SVB-E8-2



SVB-G8

5 ft. Exhaust
Hose for Gas &
Propane Blowers

Economy Electric Blower

- 1/2 HP electric motor, 9 amps, TEFC, 60 Hz, 115 VAC
- GFI power cord
- Steel blower wheel
- Polyethylene fan housing
- Powder coat steel frame
- Molded polyethylene safety guards
- 8" intake and exhaust flange
- Weight: 37 lbs.
- Dimensions: 17"L x 17"W x 18"H
- 1390 cfm, free air delivery
- 973 cfm, 25ft. duct, 1 - 90° bend

2-Speed Electric Blower

- 3/4 HP, 2-speed electric motor, TEFC
- 115 VAC, 11.5 amp, 60 Hz
- GFI power cord
- Aluminum non-sparking blower wheel
- Polyethylene fan housing
- Powder coat tubular steel frame with dual handles
- Molded polyethylene safety guards
- 8" intake and exhaust flange
- Weight: 58 lbs.
- Dimensions: 23"L x 12"W x 19"H
- 750 cfm low/1570 cfm high, free air delivery
- 490 cfm low/1047 cfm high, 25ft. duct, 1 - 90° Bend

Gasoline Powered Blower

- 127 cc Briggs & Stratton motor (Approx. 4 HP)
- Meets CAL/OSHA emission standards
- 5ft. remote flexible steel exhaust hose with custom gas-tight muffler to prevent intake of CO exhaust
- Polyethylene fan housing
- Powder coat tubular steel frame with dual handles
- Molded polyethylene safety guards
- 8" intake and exhaust flange
- Weight: 53 lbs.
- Dimensions: 23"L x 12"W x 19"H
- 1500 cfm min/3000 cfm max free air delivery
- 1040 cfm min/1725 cfm max, 25ft. duct, 1 - 90° bend

Inlet Filters Available for All Models. See page 57 for details

Honda Engine - Model SVB-G8-H

- 118 cc Honda engine option

Propane Engine - Model SVB-G8P

- Includes propane conversion kit, Briggs & Stratton engine and propane tank

Did
You
KNOW?

International blowers available.
Contact Customer Service for
details and specifications.

Industrial Grade Blower Kits for Non-Hazardous Locations



Saddle Vent®
Ventilation Kits for
Non-Hazardous
Locations

SVB-E8SCUP

Kits Include:

- 1) Centrifugal Blower of your choice
- 2) Industrial Saddle Vent®- SV-189
- 3) 90° elbow for Saddle Vent®- SVH-15
- 4) 15 ft. duct - SVH-6
- 5) 6 ft. duct - SVH-6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UM

Model No.	Description
SVB-E8CUP	Economy 8" Electric Blower Kit, includes SVB-E8EC blower and SV-CUP Saddle Vent® Ventilation Kit
SVB-E8SCUP	Standard 8" Electric Blower Kit, includes SVB-E8 blower and SV-CUP Saddle Vent® Ventilation Kit
SVB-E82CUP	2-Speed 8" Electric Blower Kit, includes SVB-E8-2 blower and SV-CUP Saddle Vent® Ventilation Kit
SVB-G8CUP	Gasoline 8" Blower Kit, includes SVB-G8 blower and SV-CUP Saddle Vent® Ventilation Kit
SV-CUP	Saddle Vent® Ventilation Kit - no blower

In-Line Steel Axial Fans for Non-Hazardous Locations

The 10" in-line axial fan has been designed to be used as a stand alone fan or attached in series to run long lengths of ventilation duct. Intake and exhaust flanges allow for either 8" or 10" duct to be attached to either end of the blower to achieve positive or negative ventilation.

The blower is light weight and weighs less than thirty pounds.

Fan meets OSHA 29 CFR 1910.303(a) and 1910.7 electrical certification requirement

Attach Fan in Series to
Run Long Sections of Duct



10" to 8" Duct
Adapters Supplied
with fan for Intake
and Exhaust



SVF-10E

10" In-Line Electric Fan

- Standard Electric Motor: 1/3 HP, continuous duty, 115 VAC, 1-phase, 60 Hz
- Power cord: 10ft. SOOW cable with installed strain release
- Frame: All steel, powder coat red with rubber base feet
- Inlet/Exhaust flange made of molded polyethylene
- 72 dbA @ 3ft.
- Dimensions: 16"L x 16.75"H x 12.5"W
- Weight: 28 lbs.
- 1390 cfm, free air delivery

Model No.	Description
SVF-10E	Standard 10" Electric Fan
SVF-10ECUP	Standard 10" Electric Fan Kit, includes SVF-10E fan and SV-CUP Saddle Vent® Ventilation Kit

Kit Includes:

- 1) In-line Axial Fan
- 2) Industrial Saddle Vent®- SV-189
- 3) 90° elbow for Saddle Vent®- SV-90
- 4) 15 ft. duct - SVH-15
- 5) 6 ft. duct - SVH-6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UM

Saddle Vent®
Ventilation Kit for
Non-Hazardous
Locations



SVF-10ECUP

Confined Space Ventilation

Non-Hazardous Location Ventilators

Saddle Vent™ Ventilation System



Fan meets OSHA 29 CFR
1910.303(a) and 1910.7 electrical
certification requirement

Model No.	Description
SVF-8AC	AC axial fan only. 1395 cfm free air
SVF-8DC	DC axial fan only. 1170 cfm free air
SVF-6ACAN	AC axial canister fan with 6 ft. duct installed - 890 cfm output
SVF-15ACAN	AC axial canister fan with 15 ft. duct installed - 870 cfm output
SVF-25ACAN	AC axial canister fan with 25 ft. duct installed - 858 cfm output
SVF-6DCAN	DC axial canister fan with 6 ft. duct installed - 825 cfm output
SVF-15DCAN	DC axial canister fan with 15 ft. duct installed - 815 cfm output
SVF-25DCAN	DC axial canister fan with 25 ft. duct installed - 796 cfm output

Steel Axial Fans

Air Systems manufactures a combination ventilation fan and duct storage unit to meet the most demanding customer needs. Our rugged polyethylene duct canister is securely attached to one of our industrial lightweight steel fans to make an ideal ventilator for the customer who wants a one piece ventilation package.



AC Version - SVF-8AC

- 1/3 HP - 115 VAC
- 8" diameter outlet
- 1395 cfm, free air delivery
- 72 dbA @ 3 ft.
- Weight: 22 lbs.

DC Version - SVF-8DC

- 12-volt DC, 1/4 HP, 19 amps
- 8" diameter outlet
- 1170 cfm, free air delivery
- 10' power cord with battery clips
- In-line 20 amp fuse holder
- 72 dbA @ 3 ft.
- Weight 22 lbs.



Saddle Vent® Ventilation Kits for Non-Hazardous Locations



Saddle Vent™ Ventilation Kit



Kit Includes:

- 1) Axial Fan of your choice
- 2) Industrial Saddle Vent®- SV-189
- 3) 90° elbow for Saddle Vent®- SV-90
- 4) 15 ft. duct - SVH-15
- 5) 6 ft. duct - SVH-6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UM

Model No.	Description
SVF-8ACUP	Economy 8" Electric Fan Kit, includes SVF-8AC fan and SV-CUP Saddle Vent® Ventilation Kit
SVF-8DCUP	Economy 8" Electric Fan Kit, includes SVF-8DC fan and SV-CUP Saddle Vent® Ventilation Kit

Confined Space Ventilation

Non-Hazardous Location Ventilators

Contractor Grade Axial Fans

The Contractor's series of ventilation products is the latest addition to Air Systems' ventilation product group. Known for product quality and performance, Air Systems offers a rugged portable polyethylene fan line designed to accommodate a variety of applications as well as demanding job site conditions at an economical price.

Fan meets OSHA 29 CFR 1910.303(a) and 1910.7 electrical certification requirement

AC Ventilation Fan

CVF-8AC

- 1/3 HP, 8" Fan, 115 VAC, 60Hz
- 10 ft. cord
- Weight: 15 lbs.
- 974 cfm, free flow
- 786 cfm, 15ft. duct, 1 - 90° bend
- 661 cfm, 15ft. duct, 2 - 90° bends

DC Ventilation Fan

CVF-8DC

- 1/4 HP, 12 VDC, 19 amps
- 20 amp fuse holder
- 10 ft. cord with Battery Clips
- 8" Fan
- Optional Battery Pack Available
- Weight: 15 lbs.
- 848 cfm, free flow
- 702 cfm, 15ft. duct, 1 - 90° bend
- 590 cfm, 15ft. duct, 2 - 90° bends



CVF-8AC

Applications:

- Boiler Work
- Manhole Entry
- Utility Companies
- Telecommunications
- Construction
- Electrical Transformer Repair
- Maintenance
- Tank Cleaning

Contractor Fans for Non-Hazardous Locations

Model No.	Description
CVF-8AC CVF-8DC CVF-8DCSB	Contractor Fan Only Contractor Grade AC Axial Fan, 115VAC, CSA/US Approved Contractor Grade DC Axial Fan, with Battery Clips Contractor Grade DC Axial Fan, with SB® Battery Connector
CVF-15ACAN CVF-25ACAN CVF-15DCAN CVF-25DCAN	Contractor Canister Fans Contractor Canister Fan, includes CVF-8AC Fan with 15 ft duct canister Contractor Canister Fan, includes CVF-8AC Fan with 25 ft duct canister Contractor Canister Fan, includes CVF-8DC Fan with 15 ft duct canister, supplied with Battery Clips Contractor Canister Fan, includes CVF-8DC Fan with 25 ft duct canister, supplied with Battery Clips
CVF-CAN15 CVF-CAN25	Contractor Duct Canister Only Duct Canister with 15 ft duct fits CVF-8AC & CVF-8DC Fans Only Duct Canister with 25 ft duct fits CVF-8AC & CVF-8DC Fans Only

CVF-15ACAN
WEIGHT: 32 LBS.



Saddle Vent® Ventilation Kits for Non-Hazardous Locations

The Saddle Vent® Ventilation Systems is now available in a low cost contractor's kit.

One part number at one low price provides the high quality Saddle Vent® ventilation system with a variety of applications for non-hazardous locations.



CVF8A15KIT

Saddle Vent® Ventilation Kits



Model No.	Description
CVF8A15KIT	Contractors Ventilation Kit, includes CVF-8AC Fan. 6 ft duct with canister and 15 ft duct, Saddle Vent®, 90° elbow, and universal mount
CVF8D15KIT	Contractors Ventilation Kit, includes CVF-8DC Fan. 6 ft duct with canister and 15 ft duct, Saddle Vent®, 90° elbow, and universal mount
CVF8A25KIT	Contractors Ventilation Kit, includes CVF-8AC Fan. 6 ft duct with canister and 25 ft duct, Saddle Vent®, 90° elbow, and universal mount
CVF8D25KIT	Contractors Ventilation Kit, includes CVF-8DC Fan. 6 ft duct with canister and 25 ft duct, Saddle Vent®, 90° elbow, and universal mount

Confined Space Ventilation

Special Application Ventilators / Carts



Environmentally
Friendly Products

Emergency Response Ventilation Kit for Non-Hazardous Locations

Ever notice emergencies happen when you least expect it?

During storms, inside difficult to access areas in the dark, or any emergency ventilation requirement, don't be caught without proper lighting or electrical service.

Completely portable, the Emergency Response Ventilation Kit provides 2 hours of simultaneous light and fan run time. The Kit includes the Mini-Cube™ area light with a water and dust tight 800 lumen LED lamphead, an 8 ft. retractable aluminum pole supporting the multi-directional head and collapsible legs providing a 30" support base. The 33 amp AGM lead battery pack has a built-in charger and voltage meter.

Also included is the Contractor Canister Fan, providing 815 cfm free air flow with 15 ft ducting.

**One part number... one price...
buys peace of mind from the unexpected.**

Model No.	Description
ERVK-15DC	Emergency Response Ventilation Kit. Includes Mini-Cube™, Model AL1MCBPC and Contractors Canister Fan, Model CVF15DCNBP
ALHL25	Magnetic Hand-Held Single Cube LED Light LED Hand Light, 800 Lumens, 25ft. cord with power port male adapter



ERVK-15DC



ALHL25

Mini-Cube™ provides a 12 Volt Power Port for operating 12-volt devices like our ergonomically designed 800 lumen pistol grip hand held light

Confined Space Entry Carts

Cart shown with
Model CBA2-346
breathing air
assembly option



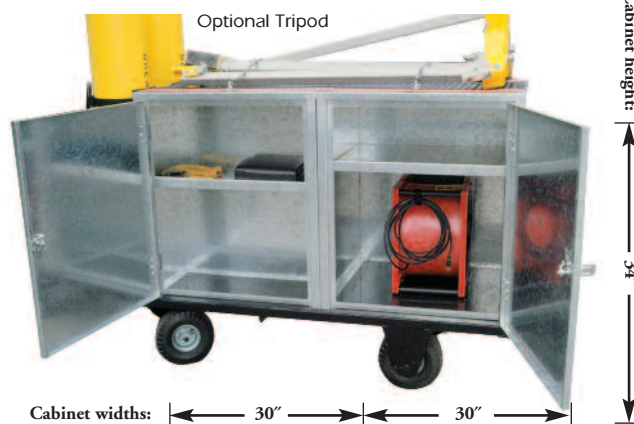
CSC-3072P CART
WITH PNEUMATIC TIRES

Steerable
front end

Cylinders
optional

**Model CSC-3072
Standard Cart**
or Customize your own cart!

2 each 14" deep cabinets
1 each 28" deep cabinet



Optional Tripod

Cabinet height: 34"

Cabinet widths: 30" 30"

Model No.	Description
CSC-3072	Standard confined space cart with 10" semi-pneumatic tires. Order cylinders and high pressure hardware, and tripod separately (tripod sold through local distributors)
CSC-3072P	Standard confined space cart with 10" pneumatic tires
CBA2-346NB	2 cylinder breathing air assembly, no cylinders - 2400 psi
CBA2-347NB	2 cylinder breathing air assembly, no cylinders - 4500 psi
AC-300	300 cf air cylinder, 2400 psi
AC-444	444 cf air cylinder, 4500 psi
AC-472	472 cf air cylinder, 5000 psi

Customizing Suggestions

Cart only (no cabinet), add blower, add extra air cylinders, make cart wider or longer

Specifications

- Steel cart rated for 1200 lbs. with 10" semi-pneumatic tires, optional pneumatic tires
- 3-cabinet design, galvanized steel, with shelving; 2 each 14" deep, 1 each, 28" deep
- Nylon bottle straps and steel safety chains for cylinder security
- Combination "T" handle with "Pintle Hitch"
- Articulating (steerable) front end
- Top rubber mat with tie-downs for storing retrieval tripod
- Order cylinders, regulator/manifold assembly, separately
- Wheel chocks available
- Dimensions 30" W x 72" L x 48" H Weight: 515 lbs.



The Saddle Vent® for Special Applications

Saddlator™

Pneumatic Powered Saddle Vent® Blower

The Saddlator™ provides positive or negative pressure ventilation to supplement confined space entry operations in large work areas or tanks and is ideal for hazardous environments.

Specifications

- Conductive Saddle Vent® with Venturi blower installed
- 90° bolt-on conductive elbow, SV90-29, supplied
- Air operated with no moving parts
- 1/2" Industrial Interchange plug
- Static ground lug installed
- Delivers 2000 - 3000 cfm on pressures from 50-100psi

Model No.	Description
SV189-29	Saddlator™ w/ elbow, positive pressure
SV189-29-N	Saddlator™ w/ elbow, negative pressure
SV90-29	90° bolt-on elbow to fit Saddlator™
SV189T-29	Tank Saddlator™
H-50-5	1/2" compressor connect hose - 50 ft.
H-50-12	3/4" compressor connect hose - 50 ft.



SV189-29

Tank Saddle Vent®

The Tank Saddle Vent® is specially designed to fit 18"W x 20"L oval shipboard hatch openings. The tank model is installed in the hatch entry area with complete entry and egress access to the ladder. The required metal guard is left in place without interference from the Tank Saddle Vent®. The Tank Saddle Vent® also fits all small round openings, 20" and smaller.



Fire Retardant



SV-189T

Model No.	Description
SV189T	Tank Saddle Vent®
SV-90T	90° elbow to fit Tank Saddle Vent®

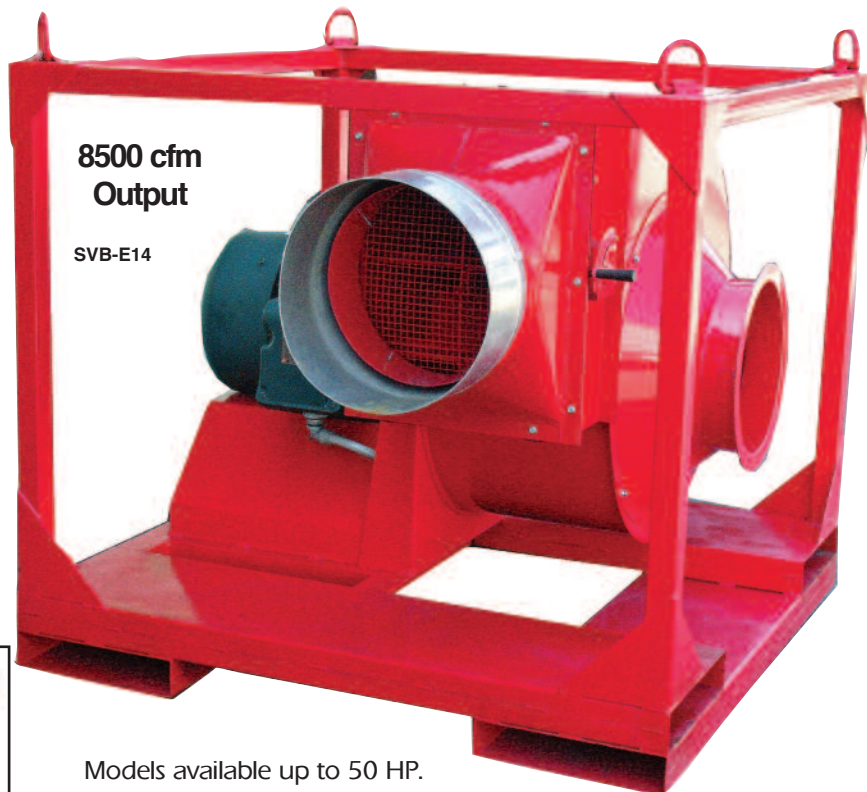
Special Application Blowers

Large Centrifugal Blowers

Air Systems can design a custom blower to meet your most demanding requirements. Our blowers are used by steel mills, shipbuilding companies and power generating stations. Select from a wide variety and style of inlet and outlet flange sizes. The blower at right is a 15 HP electric with a 14" inlet and outlet flange set on a 4-way steel fork lift skid and designed to deliver high static pressure and high cfm output for maximum lengths of ducting.

Specifications:

- 8500 cfm free flow
- 13.9" W.G. static pressure @ 4200 cfm output
- TEFC 15HP motor
- Sealed NEMA 4 on/off switch box
- 230/460 VAC, 3-phase motor
- User wired per NEC requirements
- 14" intake and exhaust flange
- Welded steel safety guards on inlet and exhaust
- Adjustable flow control gate
- Forklift guide on all four sides plus sling hooks
- Custom variations available



Models available up to 50 HP.



Custom Small Portable 6" Pressure Blower
Designed for Hazardous Location Ventilation



Inlet Filter Assembly for SVB Series Blowers

The inlet filter is designed for Air Systems' SVB series of portable industrial blowers. The unit filters inlet ambient air so workers in a confined space are not exposed to ambient dust. The system controls dust and particulates from entering a confined space where industrial coatings are being applied. The filter also reduces the potential for dust ignition in a confined space when used with an explosion-proof or intrinsically safe blower. Filters are available with 5 micron or 99.97% HEPA rating.

Model No.	Description
SVB-IFH9	Inlet filter holder, no filter, order filter choice below
SVB-IF9ST	Inlet filter, standard, 99% efficient at 5 micron, <1% flow loss with 25 ft duct
SVB-IF9HE	Inlet filter, HEPA 99.97% efficient at 0.3 micron, 40% flow reduction with 25 ft duct

See pages 47 & 51 for SVB blowers

Filter Holder



SVB-IFH9

Standard Filter



SVB-IF9ST

HEPA Filter



SVB-IF9HE



Blower sold separately

Ventilation Accessories



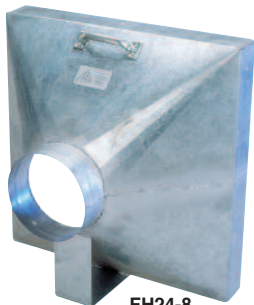
FH24-8-14
Closed

In-line HEPA Filter Holder

- Attaches before or after blower for positive or negative filtration
- Pre-filter for dusts or odors
- 8" inlet and exhaust flange
- Galvanized steel
- Optional stainless steel or aluminum frame
- Holds a 24" x 24" x 11.5" HEPA filter plus a 24" x 24" x 2" pleated pre-filter



FH24-8-14
Open



FH24-8

In-line Pleated Filter Holder Specifications

- Holds a 24" x 24" x 2" pleated filter
- 8" duct flange on one side
- Allows user to filter intake or discharge air
- Galvanized steel
- Optional stainless steel or aluminum frame
- Custom sizes and designs available

Model No.	Description
FH24-8	In-line Filter Holder holds 24" x 24" x 2" pre-filter
FH24-8-14	In-line Filter Holder holds 24" x 24" x 11.5" HEPA and 2" pre-filter
ASI-242C	Pleated Carbon Odor Removal Filter, 24" x 24" x 2", case of 6
FLTR004C	Pleated dust Filter, 24" x 24" x 2", case of 12
PFE-2412HF	HEPA Filter, 24" x 24" x 11.5"

Electric Ventilation Heaters



SVF-7KW-8

27" L X 16" H X 15.5" W
40 LBS.

Specifications

- Heaters operate with blower or fan only
- 8" inlet and exhaust flange
- Aluminum frame with steel control box
- Automatic start with blower running
- Built-in safety pressure switch
- Automatic thermal shutdown at 170°F
- 144°F output at exhaust, 112°F with 15' duct
- Order 3 ft. heater connect duct, Model no SVH-3

All Electric heaters are available with optional duct size flanges

SVF-15KW-8



32" L X 27" H X 37.5" W
95 LBS.

Model No.	Description
SVF-7KW-8	Electric 8" ventilation heater, 7kw, 230/1, 28 amps, 23,900 BTU - 30 amp plug
SVF-10KW-6	Electric 6" ventilation heater, 10kw, 440/3, 15 amps, 34,145 BTU - user wired
SVF-15KW-8	Electric 8" ventilation heater, 15kw, 440/3, 26 amp, 51,216 BTU - user wired

Vent Flow™ Alarm

Designed to Meet Confined Space
Ventilation Flow Loss Alarm Requirements



SVF-8ALM In Use

Specifications

- Meets Canadian alarm requirements
- Attaches inline to any 8" blower duct. (Optional larger and smaller duct sizes available upon request)
- Operates on two standard 9-volt batteries
- Audible alarm (92dbA) and visual red light activate with approximately 50% flow loss in the duct
- Alarms deactivate when normal flow is re-established
- Galvanized tubular steel housing
- Weight: 7 lbs.
- Overall length, 13"
- No AC power required



SVF-8ALM

For Use In Non-Hazardous Locations

Ducting and Accessories



Standard Ducting

- Vinyl polyester ventilation air duct hose
- 8" diameter with external wear strips – custom sizes available on request
- Internal steel reinforced wire hoop – 5" pitch
- 6" long attachment cuff, 8 3/8" diameter, with adjustable belt straps on both hose ends
- Maximum temperature rating 180°F



Conductive Ducting With Ground Wires
Attached to Each End of Wire Helix

8" Duct to Duct Connector



SVH-88C

Galvanized Steel or
Polyethylene Supplied

8" Conductive Duct to Duct Connector



SVH-88CND

Model No.	Description
Standard Duct	
SVH-3	8" Diameter - 3 ft. Standard Duct - Yellow
SVH-6	8" Diameter - 6 ft. Standard Duct - Yellow
SVH-15	8" Diameter - 15 ft. Standard Duct - Yellow
SVH-25	8" Diameter - 25 ft. Standard Duct - Yellow
Conductive Duct	
SVH-CND86	8" Diameter - 6 ft. Conductive Duct - Black
SVH-CND815	8" Diameter - 15 ft. Conductive Duct - Black
SVH-CND825	8" Diameter - 25 ft. Conductive Duct - Black
Duct to Duct Connector	
SVH-88C	8" Duct to Duct Connector
SVH-88CND	8" Conductive Duct to Duct Connector w/ Ground Lugs

Custom Sizes Available Up To 36" Diameter



SVH-DC25

Duct Carrier

- Holds 50 ft of 8" diameter duct
- Snap-lock lid
- Large carry handle
- Polyethylene construction
- Keeps duct from getting ripped
- Solves duct storage problem

Custom Duct Transitions

Enlarging and Reducing Adapters are Available
to Accommodate Any Transition Size - Contact
Customer Service for Ordering Information

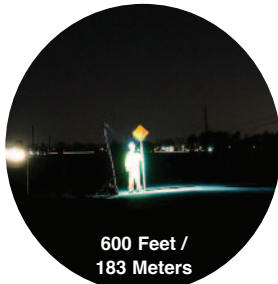


The Mini-Cube™ Flagger Light

The Mini-Cube™ is a Lightweight, Highly Portable Light Source with Extended Runtime to Light Up The Job Site.

Designed to Meet National and State Flagger Illumination Regulations. Complies with NCHRP Report 476 Section 2.5.2 (Illumination, Visibility, and Temporary Lighting) and the MUTCD Section 6E.05

8 foot
Extension!



Use your 12-Volt Adapter Cable to Charge and/or Run Your DC Powered Electrical Devices



AL1MCBP

Additional U.S. and
Foreign Patents Pending
D645,199
D644,089

Model No.	Description
AL1MCBP	Mini-Cube™ LED Light, 800 Lumens, Includes Battery Pack/Charger
AL2MCBP	Mini-Cube™ Dual LED Light, 1600 Lumens, Includes Battery Pack/Charger
ALHL25	Magnetic Hand-Held Single Cube LED Light LED Hand Light, 25ft. cord with power port male adapter

The Mini-Cube™ Portable Area Lighting

The Mini-Cube™ was developed as a lightweight, high output Portable Area Lighting System. The internal 33 amp AGM battery pack provides over 30 hours of runtime. The water and dust tight 800 Lumen LED head is multi-directional on an 8 ft. retractable aluminum pole. The Mini-Cube™ is available with a single or dual 800 Lumen LED lamphead.

Operational Features

- Full 8 ft. light elevation
- Collapsible aluminum extension mast with locking thumb screws and retractable cable - 24" collapsed height
- Single cube, 10 watts, 800 lumens per cube
- Dual cube, 20 watts, 1600 total lumens
- Rated 50,000 hours service on LED lamphead
- Push-to-test volt meter built in to front panel
- 12-volt power port for quick charge from an external battery source or voltage out to run 12-volt devices
- Adjustable directional lamphead(s)
- Weight: 35 lbs.

Internal Battery

- 12 VDC sealed 33amp AGM lead acid battery
- Deep cycle, with built-in 115 VAC charger system and cord
- Run time for Single LED Mini-Cube™ with full charge, 32+ hours
- Run time for Dual LED Mini-Cube™ with full charge, 16+ hours
- Battery pack rated for 500+ charge cycles
- Approved for continuous charging when light not in use. If fully depleted, it may require up to 24 hours to fully recharge
- One year replacement warranty on battery pack and charger

Mini-Cube™ Applications

- Flagger Lighting
- Emergency Response Lighting
- Area Lighting
- Small Enough for Use in Bucket Trucks
- Construction
- Maintenance

Hand Held LED Light



Power Port Connection

115 VAC Charge Jack

Independent light on/off switches

NEMA 3 protection

AL2MCBP

Mini-Cube™ Features

Digital push to test voltage meter

DC Power Port

Polyethylene collapsible legs provides a 30" support base



Approvals

- Battery FAA, DOT, CAB, IA, and TA approved for air transport
- RoHS (Restriction of Hazardous Substances) compliant

The Air-Light™ System (A.L.S.) DC Powered Portable LED Light Series

The Air-Light™ Systems have been designed to provide high power lighting for indoor and the most adverse outdoor conditions.

The compact portable design comes fully assembled for use and deploys rapidly in under 30 seconds without the need for component assembly. It's stable platform insures reliable lighting on rugged terrain and high wind conditions.

With it's high capacity 22 amp/hr internal battery and the ability to switch over to AC power or DC power from a response vehicle, the Air-Light™ will see you through until your job is complete.



Air-Light™ Applications

- Emergency Response Lighting
- Area Lighting
- Construction
- Maintenance
- Crime Scene Investigation



Lamps
Extend up to
87" Height

Additional
U.S. and Foreign
Patents Pending
D645,199
D644,089

Operational Features

- Power supply can be switched from internal battery to external 12 VDC power or 110-240 VAC 50/60Hz power without interrupting light operation
- Internal battery can be charged from external 12 VDC or 110-240 VAC 50/60Hz power sources
- Power port socket for charging of internal battery or powering external accessories Such as cell phones, laptops, handheld lights or any device utilizing 12 VDC power
- Operate/charge with clamp style jumper cables
- Unit delivered fully assembled
- Unit deploys/stows rapidly without the use of tools and folds to fit within the integral storage case
- Operational in sustained 35 mph full frontal winds, 65+ mph rear winds
- Mast extends from a range of 30" - 87" above ground

DC Powered Area Lighting

The Air-Light™ System



Power Source Features

Internal Battery and Charger

- 12 VDC, 22amp/hr, deep cycle sealed lead acid, AGM battery
- Maintenance-free, non-spillable, and operates in any position
- Safely stored/operated at -40°F to 140°F, (-40°C to 60°C)
- 6 hour minimum recharge time. 12 hours or overnight to condition the battery from full discharge
- Rated for 500+ discharge cycles, 3 -5 year service life
- One year replacement warranty on battery pack and charger
- 3 amp Internal charger rated 50/60 hz, 110-240 VAC
- Supplied with charge cord and power port cable



DC to DC power cord
and 115 VAC charger
cables provided

12 volt DC power port
can operate / charge
accessory equipment like
cell phones or laptops



Battery can be charged from a direct connection
from a vehicle's battery system via jumper cables to
battery posts located on the standard battery pack

DC Powered Area Lighting

The Air-Light™ System

LED Light Specifications

- 50,000 + hours LED service life
- Lamp assembly auto shut-off at 9VDC
- Color temperature 5,000° Kelvin (pure white)
- Flood pattern light beam diffusion (Spot and EURO beam patterns available)
- Water proof, dust proof, IP68 rating
- Independent directional adjustment of each lamp assembly
- 87" Full Extension - aluminum mast with locking thumb screws

Note: Infrared LED cube lights available in 850nm and 940nm



Dual Cube Specifications:

- 12 VDC, 1.5amps, 20 watts
- 1600 Lumens (800 lumens per cube)
- Anodized aluminum with polycarbonate lens
- Operating temperature, -40°C to 85°C (-40°F to 140°F)
- Full Charge Run Time: 10+ hours
- IR Models, Full Charge Run Time: 30+ hours

Control Panel

- NEMA 3 protection
- Independent light control switches
- Digital push to test voltage meter
- External color coded POS (+) and NEG (-) connection posts
- Dual ended power port cable for connection to vehicle cigarette lighter or auxiliary power outlet supplied
- 110 VAC US cord standard, (international cord sets available)



Approvals / Conformances

- Declaration of Conformity CE council directive 2006/95/EC
- Specifications Declared : Essential Health and Safety Requirements of Annex 1 of the Low Voltage Directive
- RoHs (Restriction of Hazardous Substances) compliant
- CE registered lights
- Battery FAA, DOT, CAB, IA, and TA approved for air transport

**Specifications and Features
Apply to ALL A.L.S. Series
Light Products**



Quad Cube Specifications:

- 12 VDC, 3amps, 40 watts
- 3200 Lumens (800 Lumen per cube)
- Anodized aluminum w/ polycarbonate lens
- Operating temperature, -40°C to 85°C (-40°F to 140°F)
- Full Charge Run Time: 5+ hours
- IR Models, Full Charge Run Time: 15+ hours



Interior Frame

- Unit collapses for storage
- Integral stainless steel unitized structural frame assembly and battery box
- Drop tested from 1 meter, (all 6 sides, all 4 corners) with no internal, structural, or electrical failures
- Stainless steel telescoping stabilizer leg assemblies
- Stabilizer legs fully deployed to create a stable 36" x 32" 3-point platform
- Stainless steel support legs unfold with the push of a spring release button
- Support legs extend to either 19" or 32" length
- Mast extends from a range of 30" - 87" above ground
- Dimensions:
 - Retracted 22.5" H x 12.7" W x 9.75" D
 - Deployed 87" H x 32" W x 36" D
- Weight: 48 lbs.

The Air-Light™ System

Choose a light assembly to meet your application



Model No.	Description
LED Cube Light Models	
AL2CUBE8P	Air-Light™ Dual Cube LED Light Assembly - Includes internal battery pack and 3 amp battery charger and cables
AL4CUBE8P	Air-Light™ Quad Cube LED Light Assembly - Includes internal battery pack and 3 amp battery charger and cables
Night Vision Models	
AL2C-IR850	Air-Light™ Dual Cube Light Assembly - Includes internal battery pack and 3 amp battery charger, 850 nm output light spectrum for night vision
AL2C-IR940	Air-Light™ Dual Cube Light Assembly - Includes internal battery pack and 3 amp battery charger, 940 nm output light spectrum for night vision
AL4C-IR850	Air-Light™ Quad Cube Light Assembly - Includes internal battery pack and 3 amp battery charger, 850 nm output light spectrum for night vision
AL4C-IR940	Air-Light™ Quad Cube Light Assembly - Includes internal battery pack and 3 amp battery charger, 940 nm output light spectrum for night vision
Magnetic Hand-held Single Cube LED Light	
ALHL25	LED Hand Light, 25ft. cord with power port male adapter

Additional LED cubes can be added to your assembly as needed. Contact Customer Service.

Accessories / Kits

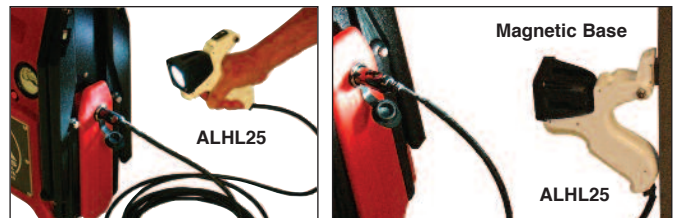
Model No.	Description
ALHL25	Magnetic Hand-Held Single Cube LED Light LED Hand Light, 800 lumen, 25ft. cord with power port male adapter
ERVK-15DC	Emergency Response Ventilation Kit AL1 MCBP Mini-Cube™ LED light and CVF-15DCAN fan with SB® connector
LP-PC-DE	Charging Cord Sets Dual end power port connector cable, 8ft.
C7-PC-USA	7ft. DC charge cord to AC - United States
C7-PC-EUR	7ft. DC charge cord to AC - Europe
C7-PC-UK	7ft. DC charge cord to AC - United Kingdom
C7-PC-AUS	7ft. DC charge cord to AC- Australia

Hand Held LED Light

Specifications:

- 12 VDC, .75amps, 10 watts, 800 Lumens
- Anodized aluminum housing with polycarbonate lens
- Operating temperature, -40°C to 85°C; -40°F to 140°F
- 25 ft power cord with male power port connector
- Ergonomically designed polyethylene pistol grip
- Magnet rated @ 30 lbs. with adjustable base

Power Port Connection



Environmentally
Friendly Products

Emergency Response Ventilation Kit



Emergency response ventilation and high output DC lighting for a full 2 hour simultaneous fan and light run time.

See details on page 55

Charging cord sets supplied with all Air-Light™ Models



Fume-Air™ 750

Source Capture to Meet OSHA Standards



**Arm shipped
completely
assembled and
ready to bolt on
main extractor
cabinet**



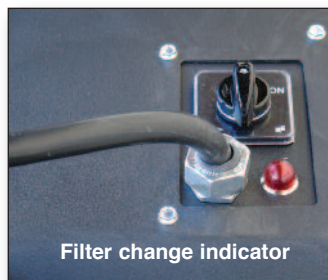
The Fume-Air™ 750 HEPA filtered fume extractor provides 750 cfm flow through a 13" hood and is ideal for welding and soldering applications where large flow volume is required. With 270 degree movement and 10 foot arm, it is easy to position the hood next to the workpiece.

The pleated pre-filter and HEPA filter remove 99.97% at 0.3 micron and meets the OSHA Permissible Exposure Limit (PEL) for hexavalent chromium of 5 µg/m³.

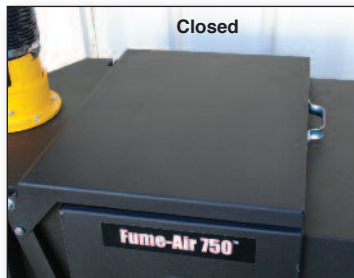
Specifications

- 115 VAC motor, 12.5 amps
- 13 inch fume capture hood with adjustable flow damper - optional hood light
- HEPA Filter, 99.97%, UL-586 approved, DOP Tested 1000 cfm flow rate
- 6 inch diameter, 10 ft. ducted arm with 270 degree movement
- 750 cfm flow with 10 ft. arm
- Filter change indicator
- Steel Cabinet
- 24" x 24" x 1" Pleated pre-filter holder
- Lift-up filter door for easy access filter change
- 5" Heavy Duty Casters
- Weight: 307 lbs. with 10ft. arm
- Size: 27" W X 40" D X 32.5" H

Lift up filter door for easy access filter change



Filter change indicator



Closed



Pre-Filter Open

HEPA Filter

Fume-Air 750

Model No.	Description
PFE-750-8	Portable Extractor, Fume-Air™ 750 complete with 10 ft arm assembly, and 99.97% HEPA filter
PFE-750CAB	Fume-Air™ 750 with no arm assembly designed for permanent central duct systems, includes HEPA filter
Filters	
PFE-2412HF	HEPA filter 24" x 24" x 11.5"
PFE-2424PF	Pre-filter pad 24" x 24" x 1" (pkg. of 10)
PFE-2424C	Charcoal impregnated pre-filter pad, used with PFE-2424PF 24" x 24" x 1" (pkg/10)
PFE-750LK	Light kit for PFE-750-8 Fume Hood

**Did
You
KNOW?**

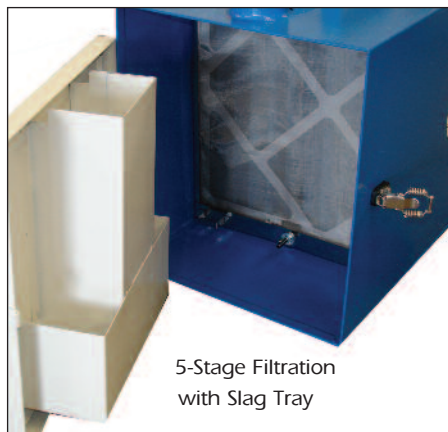
Important Welding Fume Health Standard Change:

Effective May 30, 2006, OSHA lowered the PEL for Hexavalent Chromium and its compounds called Hex Chrome from 52 to 5 micrograms per cubic meter. This standard affects all general industry, shipyards, and construction industry activities with regard to welding on stainless steel and painted surfaces. The new standard necessitates source capture of these extremely harmful compounds with the use of HEPA filtered portable welding fume extractors. (FED REG 71:10099-10385)

Specifications

- 2 each, 115 VAC, 800 watt vacuum motors with 15amp overload protector
- Final stage HEPA filter, 99.97% at 0.3 micron
- 70 dbA noise level at 3 feet w/ built-in noise suppressor
- 230 cfm flow rate - variable speed
- Fire retardant, 10 ft, flexible
- Dual handle assembly
- Three pleated intermediate filters
- 2.5" ID hose supplied with 2.5" hose coupler for adding additional hose
- 5" fume capture hood with magnetic base stand supplied
- 5-stage filtration
- Stainless steel spark screen
- Removable slag tray
- Size: 28.5" L x 15" H x 18.5" W
- Weight: 57 lbs.

HEPA Filtered for Hazardous Welding Applications



Fume-Air™ 230

Designed for Light Duty, Short Duration Welding

Air Systems' small HEPA filtered portable fume extractor, Model PFE-230, provides 230cfm flow through a 5" hood and magnetic base stand. Ideal for many small welding and soldering applications where large cabinet style fume extractors are not practical, such as, spot or bench top welding. The PFE-230 features removable slag tray, spark screen, 3 pleated pre-filters and a final HEPA filter (99.97% at 0.3 micron).



Model No.	Description
PFE-230	Portable Fume Extractor - complete with hose, filters, and accessories
Filters	
PFE-230-F1	Stainless Steel Filter - captures up to 95% of the spark and steel chips down to 1-2 microns
PFE-230-PF	Pleated Filter - 12" x 12" x 2" MERV 7 rated, 70% efficient (3 filters required)
PFE-230-HF	Pleated HEPA filter 12" x 12" x 5 7/8" captures 99.97% of the 0.3 micron particles. DOP certified
SVB-LCRT	Mobile steel cart with Storage Box

Optional Cart holds Model PFE-230 and provides a storage cabinet for welding supplies. Cart is made of steel with black powder coat paint, front swivel casters and rear locking casters.



Electric HEPA Filtered Vacuums

Hazardous material vacuums are equipped with a HEPA filter system consisting of a certified absolute HEPA filter, a double layer intermediate micro filter, and a totally enclosed 2-ply disposable paper filter bag. The HEPA filter has a steel outer casing and micro-fibred glass paper filter media separated by corrugated aluminum sheeting that is encased in a protective steel screen. All HEPA filters are rated with a minimum efficiency of 99.97% at 0.3 microns. They are tested using the HOT DOP method @ 100cfm, UL 586 certified, maximum 1" resistance. Models AV-2 and AV-15 motor heads are provided with a remote exhaust port for 1.5" or 2.0" hose. All motors have a 2 year warranty.

Models AV-2, AV-5, and AV-15 are shipped with a HEPA filter, an intermediate pre-filter, a 2-ply disposable paper filter bag, and tool kit. The tool kit includes, 5 ft. curved steel wand, 10 ft. vacuum hose with end cuffs, crevice tool, inlet swivel connector and hard floor brush. An optional wet conversion kit converts the dry vacuum for liquid pick up (not available on Model AV-4POLY).

All HEPA filters meet or exceed the following standards:

- IEST-RP-CC007
- UL-586
- MILF-561079
- ANSI-2-92



**Contractors Model
AV-4POLY**



AV-2



**AV-5
with power head plug**



**AV-15
w/ Optional Auto
Shut-off for Wet Pickup**

Specifications

AV-4POLY	120 VAC, 60 Hz, 1.3 HP, by-pass, 7.5 amps, 900 watts, 94cfm, 84" water lift, 4 gallon recovery, 6 gallon polyethylene tank, 30ft/18-3 power cord with plug, 78dbA, 10 ft. hose (1 1/4") supplied. Motor head has a 2 year warranty. Includes all filters and tool kit. (Uses pneumatic beater bar).
AV-2	120 VAC, 60 Hz, 1.3 HP, 2 stage by-pass, 7.5 amps, 900 watts, 94cfm, 84" water lift, 2 gallon recovery, 3 gallon stainless steel tank, 30ft/18-3 power cord with plug, 78dbA, 10 ft. hose (1 1/2") supplied. Motor head has a 2 year warranty. Includes all filters and tool kit.
AV-5	120 VAC, 60 Hz, 1.3 HP, 2 stage by-pass, 7.5 amps, 900 watts, 94cfm, 84" water lift, 5 gallon recovery, 7 gallon stainless steel tank, 30ft/18-3 power cord with plug, 78dbA, 10 ft. hose (1 1/2") supplied, on/off switch, MIL SPEC water dump valve. Motor head has a 2 year warranty. Includes all filters, tool kit, handles and wheel kit. (Electric beater bar option, Model AV-33150 only).
AV-15	120 VAC, 60 Hz, 2.3 HP, 2 stage by-pass, 11 amps, 1320 watts, 115cfm, 110" water lift, 15 gallon recovery, 20 gallon stainless steel tank, 30ft/14-3 power cord with plug, 10 ft. hose (1 1/2") supplied, 78dbA, on/off switch, MIL SPEC water dump valve. Motor head has a 2 year warranty. Includes all filters, tool kit, handles and wheel kit. (Electric beater bar option, Model AV-33150 only).

NOTE: Optional voltage and Hertz available. Consult customer service for details.

**Did
You
KNOW?**

All of our Electric HEPA Vacuums meet the EPA's New RRP (Renovation, Repair, and Painting Regulations) 40CFR, Part 745, Subpart E. Models AV-5 and AV-15 are supplied standard with an external electric receptacle to operate the optional beater bar power head for use on lead and asbestos abatement projects.

Electric vacuums are listed.

Model No.	Description
AV-4POLY	4 gallon recovery, 1.3 HP motor, HEPA, polyethylene tank, complete with wand, accessory tools, and filters. Pneumatic beater bar available.
AV-2	2 gallon recovery, 1.3 HP motor, HEPA, stainless steel tank, complete with wand, accessory tools, and filters.
AV-5	5 gallon recovery, 1.3 HP motor, HEPA, stainless steel tank with floor casters and handles, complete w/ wand, accessory tools, and filters. Fitted with a power nozzle receptacle
AV-15	15 gallon recovery, 2.3 HP motor, HEPA, stainless steel tank, cart, wand, accessory tools, and filters. External electric receptacle for beater bar option.
AV-5PTE	5 gallon recovery, 1.3 HP motor, HEPA, polyethylene tank, wheels, wand, accessory tools, and filters. External electric receptacle for beater bar option.
AV-15PTE	15 gallon recovery, 2.3 HP motor, HEPA, polyethylene tank, cart, wand, accessory tools, and filters. External electric receptacle for beater bar option
AV-55	55 gallon drum lid assembly with HEPA filter, 1.5" hose connection, and 2.3 HP motor
Back-Pack Electric Model	
AV-2BP	2 gallon HEPA stainless steel vacuum with back pack frame

Environmental Control

Pneumatic HEPA Vacuums - For Hazardous Locations



AV-2PBP

Pneumatic HEPA Vacuums

Pneumatic powered vacuums are ideal for working in wet environments or where long lengths of vacuum hose are required. Air motors require no maintenance and contain no moving parts. A built-in pressure relief valve restricts water lift to 160" to prevent tank collapse. An on/off flow valve and pressure gauge are provided. Spark-free air motor.



AV-15P



AV-5P

Specifications

- Inlet Pressure: 80 psi with 1/2" I.D. hose
- Inlet Flow: 70 cfm required
- Vacuum Pressure: 250" water lift maximum, adjusted to 160" water lift with relief valve
- Vacuum Flow: 100 - 170 cfm based on inlet pressure
- Noise Level: 75dba @ 90 psi inlet pressure
- Tank: Stainless Steel

Model No.	Description
AV-2P	2 gallon recovery, pneumatic motor, stainless steel tank, complete with wand, filters, and accessories
AV-5P	5 gallon recovery, pneumatic motor, stainless steel tank, wand, accessory tools, and filters
AV-15P	15 gallon recovery, pneumatic motor, stainless steel tank, cart, wand, accessory tools, and filters
AV-55P	55 gallon drum lid assembly with HEPA filter, 1.5" hose connection, and pneumatic motor
Back-Pack Pneumatic Model	
AV-2PBP	2 gallon, pneumatic motor, stainless steel vacuum with back pack frame

See Page 69 for Replacement Bags, Filters and Accessories

Conductive Pneumatic HEPA Vacuums

Safely Remove Potential Static Charge Build-up

- Pneumatic spark free vacuum motor
- All aluminum non-sparking tools and 2-piece aluminum wand
- 10 ft., 1.5" Conductive Vacuum hose with cuffs (grounds to tank)
- Motor head has grounding wire attached to the recovery can
- 25 ft. ground wire is attached to the vacuum recovery can to attach to a grounded external device for static removal

Specifications

- Inlet Pressure: 1/2" I.D. hose - 80 psi
- Inlet Flow: 70 cfm required
- Vacuum Pressure: 250" water lift maximum, adjusted to 160" water lift with relief valve
- Vacuum Flow: 100 - 170 cfm based on inlet pressure
- Noise Level: 75dba @ 90 psi inlet pressure



AV-15P-CND



AV-55DD



AV-55P-CND

Note: AV-55P-CND is supplied with all ground wires connected, conductive hose, steel drum and a 55 gallon drum dolly

Model No.	Description
AV-2P-CND	2 gallon recovery, pneumatic motor, stainless steel tank, complete with wand, filters, accessory tools and ground wires
AV-5P-CND	5 gallon recovery, pneumatic motor, stainless steel tank, wand, filters, accessory tools and ground wires
AV-15P-CND	15 gallon recovery, pneumatic motor, stainless steel tank, cart, wand, filter accessory tools and ground wires
AV-55P-CND	55 gallon drum lid assembly with HEPA filter, 1.5" conductive 10ft hose, pneumatic motor, steel 55 gallon drum, drum dolly, filters, accessory tools and ground wires
AV-55DL	Drum lid includes 1.5" goose neck adapter (order motor, filters, and hoses separately)
AV-55DD	Drum Dolly - 55 gallon

See Page 69 for Replacement Bags, Filters and Accessories

HEPA Vacuum Accessories



Accessories Included with Vacuum Models AV-2, AV-5 & AV-15

1. HEPA filter
2. Intermediate filter (installed under HEPA filter)
3. 2-ply 5 micron rated paper recovery bag
4. Vacuum hose with end cuffs
5. Inlet swivel connector
6. Crevice tool
7. Hard floor brush
- * Curved wand – 5 ft. (not pictured)



Pneumatic Beater Bar



Electric Beater Bar

Other Accessories Available

8. Hose-to-hose coupler
9. Squeegee tool for water pick-up
10. Carpet tool
11. Round brush
12. Pneumatic motor head (fits 5, 15, & 55 gallon tanks)
13. Automatic water shut-off device with extension collar
14. Poly tool – adjustable roller height squeegee tool designed to pick up water from polyethylene sheeting
15. 55 gallon drum adapter – accepts 15 gallon electric or pneumatic motor head and HEPA filter

**Did
You
KNOW?**

*All of our Electric HEPA
Vacuums meet the EPA's
New RRP 40CFR, Part
745, Subpart E.*

Model No.	Description
Replacement Bags and Filters	
AV-2B	Paper recovery bags, 2 gallon, 5/package
AV-5I	Intermediate filter, fits AV-5 and AV-2 Series, 2/package
AV-2H	HEPA filter (99.97% UL), 2 gallon, 1 each
AV-5B	Paper recovery bags, 5 gallon, 5/package
AV-4B	Paper recovery bags, 4 gallon, 5/package
AV-5I	Intermediate filter, 2/package, fits AV-5 and AV-2 Series
AV-5H	HEPA filter (99.97% UL), 5 gallon, 1 each
AV-15B	Paper recovery bags, 15 gallon, 5/package
AV-15I	Intermediate Filter - 15 gallon - 2/package - fits AV-15 and 55 Series
AV-15H	HEPA filter (99.97% UL) - 15 gallon - fits AV-15 and 55 Series
Accessories	
AV-335150	Electrically operated beater bar for AV-5 and AV-15 models
AV-4POLYTN	Pneumatically operated beater bar for AV-4POLY
AV-5WP	5 gallon water pick-up with auto shut-off
AV-15WP	15 gallon water pickup with auto shut-off (can be used on AV-55)
AV-55DD	55 gallon drum dolly with wheels and handle
AV-55DL	Drum lid for 55 gallon drum, includes 1.5" goose neck adapter
Accessories - 1 1/2" Hose	
AV-H10	Vacuum extension hose, 1 1/2", 10ft. with cuffs
AV-H10CND	Vacuum hose, conductive, 10ft., 1 1/2" I.D., with cuffs
AV-H50	Vacuum extension hose, 1 1/2", 50ft. with cuffs
AV-HC-1	Hose-to-hose coupler, 1 1/2" hose, metal
AV-HN10	Neoprene extension hose, 10ft., 1 1/2" with cuffs
AV-C1	Hose cuff, 1 1/2"
AV-103	11" plastic crevice tool, 1 1/2"
AV-100	Curved aluminum wand - 54", fits 1 1/2" hose
AV-6200	Floor brush, 14" - fits 1 1/2" hose
AV-6203	Water squeegee tool, 14", fits 1 1/2" hose
AV-102	Carpet tool, 14", fits 1 1/2" hose
AV-101	Inlet swivel connector, fits 1 1/2" hose
AV-105	Goose neck hose adapter for 55 gallon drum lid - fits 1 1/2" hose
AV-3RB	3" round brush, 1 1/2" connector
Accessories - 2" Hose	
AV-31AB	2" x 56" aluminum wand, curved
AV-314	2" aluminum floor tool
AV-208	2" x 15" crevice tool, aluminum
AV-HC-2	Hose-to-hose coupler, 2" hose, metal
AV-C2	Hose cuff, 2"
AV-2360	2" inlet swivel connector
AV-H10-2	2" extension hose, 10ft. with cuffs

**Note: Vacuum hose can be
ordered to any desired length.**



FILL COMPRESSOR QUOTE REQUEST

Please fill out as completely as possible and fax back to (800) 247-5850.
If help is required, please contact us Monday - Friday 8AM - 5PM EST at (800) 866-8100
www.airsystems.com

Contact Information

Contact Name: _____ Telephone Number: _____
Company Name: _____ Fax Number: _____
Address: _____ Email Address: _____
City: _____ Cellular Number: _____
State: _____ Zip Code: _____ Method of Contact: _____
Phone ☐ Fax ☐ Email ☐

Fill Compressor

- Would you prefer a mobile or stationary system? Portable ☐ Stationary ☐
Trailer Mounted ☐ Skid Mounted ☐
- Which power source would you prefer? 1-Phase Electric ☐ 3-Phase Electric ☐
Gasoline ☐ Diesel ☐
If electric: Voltage: 208 VAC ☐ 230 VAC ☐ 460 VAC ☐ Hertz: 60 Hz ☐ 50 Hz ☐
- What pressure SCBA/SCUBA cylinders do you need to fill?
2216 PSI ☐ 3000 PSI ☐ 4500 PSI ☐ 5000 PSI ☐
- What is the maximum number of these cylinders to be filled per day (per use)?
0-5 ☐ 6-10 ☐ 11-14 ☐ 15-19 ☐ 20-24 ☐ 25+ ☐
- What is the CFM output _____ cfm and pressure _____ psi required?
- Would you like a carbon monoxide monitor installed? Yes ☐ No ☐

Fill Station

- What kind of fill station is preferred?
NFPA-1901 Compliant Full Containment ☐ Partial Containment ☐ None ☐
- If none, what length fill whip is required? 5 Ft. ☐ 10 Ft. ☐ 15 Ft. ☐
25 Ft. ☐ 50 Ft. ☐ 100 Ft. ☐
- What kind of control panel is required? Cascade-Style ☐ Bulk-Style ☐
- Do you need safety fill adapters? Yes ☐ No ☐
If yes, which pressure set(s) will you require? 2216 PSI ☐ 3000 PSI ☐ 4500 PSI ☐
- How many SCBA's would you like to fill simultaneously? One ☐ Two ☐ Three ☐

Air Storage

- Will you be purchasing an air storage system? Yes ☐ No - Using Existing Cylinders ☐
No - Not Using Storage ☐
If you are using existing cylinders, do you still need connection hardware? Yes ☐ No ☐
- Will you prefer high pressure flexible whips or rigid stainless steel tubing?
Flexible Whips ☐ Rigid Stainless Steel ☐
- Storage Rack preferences: Vertical ☐ Horizontal ☐ Wall Mountable ☐ Free Standing ☐
- How many storage cylinders would you like in this system? 2 ☐ 4 ☐ 6 ☐ 8 ☐ 10 ☐

Cut Here and Fax to 1-800-247-5850



PLANT AIR COMPRESSOR QUOTE REQUEST

Please fill out as completely as possible and fax back to (800) 247-5850.

If help is required, please contact us Monday - Friday 8AM - 5PM EST at (800) 866-8100

www.airsystems.com

Contact Information

Contact Name: _____ Telephone Number: _____
Company Name: _____ Fax Number: _____
Address: _____ Email Address: _____
_____ Cellular Number: _____
City: _____ Method of Contact: _____
State: _____ Zip Code: _____ Phone ☐ Fax ☐ Email ☐

System Requirements

1. This system will need to be: Portable ☐ Stationary ☐

If Stationary, this system will be permanently located Indoors ☐ Outdoors ☐
2. What are the power requirements for this system?
1-Phase Electric ☐ 3-Phase Electric ☐ Gasoline ☐ Diesel ☐

If electric, what are the voltage requirements?
115 VAC ☐ 208 VAC ☐ 230 VAC ☐ 460 VAC ☐ 60 Hz ☐ 50 Hz ☐
3. What type of respirator is being used?
Pressure Demand Mask ☐ Continuous Flow Mask ☐ Continuous Flow Hood ☐
4. What are the flow and pressure requirements? _____ cfm @ _____ psi
5. Are cooling tubes being used (i.e. Vortex)? If so, what are the flow and pressure requirements?
_____ cfm @ _____ psi
6. How many workers do you anticipate using this system at any given time? (quote maximum) _____
7. What other types of devices are you planning to use? (pneumatic tools, air vests, etc.)

8. Will remote air manifolds (point-of-attachments) be required? Yes ☐ No ☐
9. Number of remote air manifolds required? 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ Other: ☐
10. Number of outlets desired per manifold? 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ Other: ☐
11. Will the remote air manifold need to be: Portable (Case Mounted) ☐ Stationary (Wall Mounted) ☐
12. Will audible and/or visual remote alarms be required? Yes ☐ No ☐
If Yes, Audible ☐ Visual ☐ Both ☐
13. Will this system be used in an IDLH (Immediately Dangerous to Life or Health) environment? Yes ☐ No ☐
14. Are there any special environmental conditions that may exist where the system is located?
(i.e. rain, chemicals, vapors, dust, heat, cold, etc) _____

----- Cut Here and Fax to 1-800-247-5850 -----

WARRANTY DISCLAIMER

Air Systems' manufactured equipment is warranted to the original user against defects in workmanship or materials under normal use for one year after date of purchase. Any part which is determined by Air Systems to be defective in material or workmanship will be, as the exclusive remedy, repaired or replaced at Air Systems' option. This warranty does not apply to electrical systems or electronic components. Electrical parts are warranted, to the original user, for 90 days from the date of sale. During the warranty period, electrical components will be repaired or replaced at Air Systems' option. Airline monitors are warranted for two years from date of purchase. Carbon monoxide sensors are warranted for two (2) years; oxygen sensors are warranted for one (1) year from date of purchase.

NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER IS GIVEN BY AIR SYSTEMS IN CONNECTION HERewith. UNDER NO CIRCUMSTANCES SHALL THE SELLER BE LIABLE FOR LOSS OF PROFITS, ANY OTHER DIRECT OR INDIRECT COSTS, EXPENSES, LOSSES OR DAMAGES ARISING OUT OF DEFECTS IN, OR FAILURE OF THE PRODUCT OR ANY PART THEREOF.

The purchaser shall be solely responsible for compliance with all applicable Federal, State and Local OSHA and/or MSHA requirements. Although Air Systems International believes that its products, if operated and maintained as shipped from the factory and in accordance with our "operations manual", conform to OSHA, MSHA, or NFPA requirements, there are no implied or expressed warranties of such compliance extending beyond the limited warranty described herein. **Product designs, specifications, and prices are subject to change without notice.**

Air leaks are not covered under warranty except when they result from a defective system component, i.e. an on/off valve or regulator or upon initial delivery due to poor workmanship. Air leaks due to poor delivery or damage will be covered under delivery claims. Minor air leaks are part of routine maintenance and service and are the responsibility of the customer just as filter and oil changes.

DISCLAIMER OF SAFE DELIVERY: IMPORTANT NOTICE – WE DO NOT GUARANTEE SAFE DELIVERY

1. Our terms of sale are FOB our factory – the responsibility for damage in transit is the carrier's, whether it is visible damage or concealed damage.
2. Inspect truck shipments immediately. Insist that visible damages be indicated on your copy of the freight bill.
3. Claims for damages must be made immediately by you to the truck carrier.
4. **IN CASE OF DAMAGE BY UPS OR FEDEX, CALL AIR SYSTEMS' REPAIR SERVICE FOR ASSISTANCE. DO NOT RETURN DAMAGED GOODS OR DISPOSE OF ORIGINAL PACKAGING MATERIALS UNTIL INSPECTED BY THE CARRIER.**
5. Merchandise shortage must be reported within 10 days of receipt of goods.

MERCHANDISE RETURNS

No equipment can be returned without prior factory authorization and return freight must be prepaid. Call Repair Service Dept. toll free: 1-800-866-8100 or 757-424-3967 to obtain a return authorization number. Equipment returned under 90 days must be in like new condition in order to receive credit. A return authorization form will be faxed to you for use as your return merchandise packing slip.

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CUSTOM APPLICATIONS

We welcome any custom design applications to meet your specific needs. We will provide technical drawings and installation recommendations to ensure proper utilization of equipment. We feel that this phase of our business is one of the most important services to our distributors and customers. Custom products, once approved by the customer and delivered, are not returnable for credit.

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